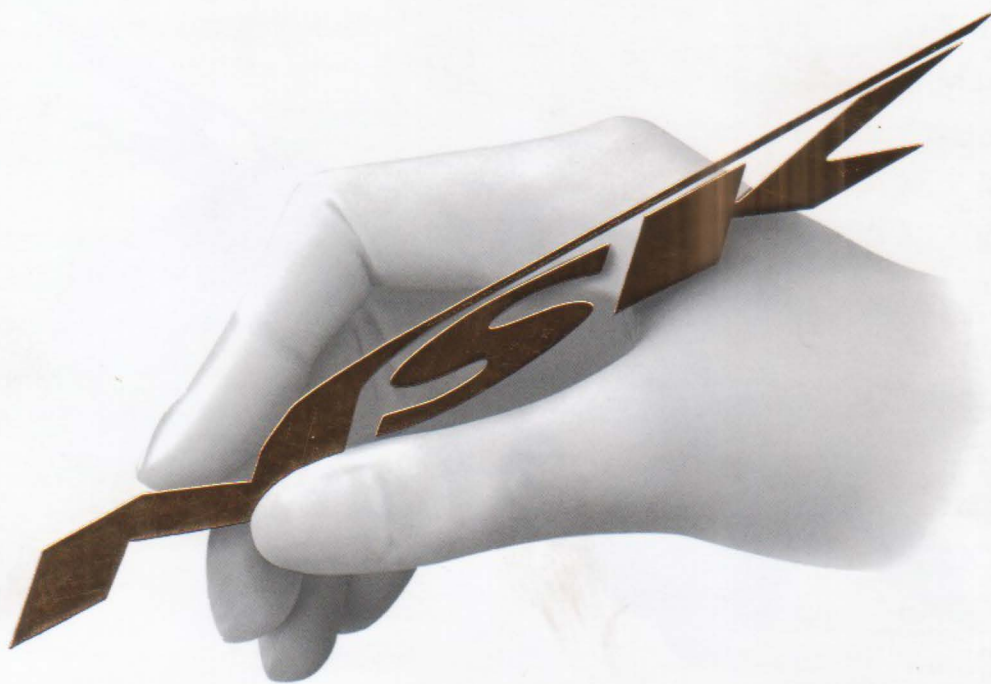


NSK

PROFESSIONAL PRODUCTS CATALOGUE

www.igra.ahlamontada.com



2010



لتحميل أنواع الكتب راجع: (مُنْتَدَى إِقْرَأَ الثَّقَافِي)

پراي دانلود کتابهای مختلف مراجعه: (منتدی اقرأ الثقافی)

بۆدابه زاندنی جوهرها کتیب: سەردانی: (مُنْتَدَى إِقْرَأَ الثَّقَافِي)

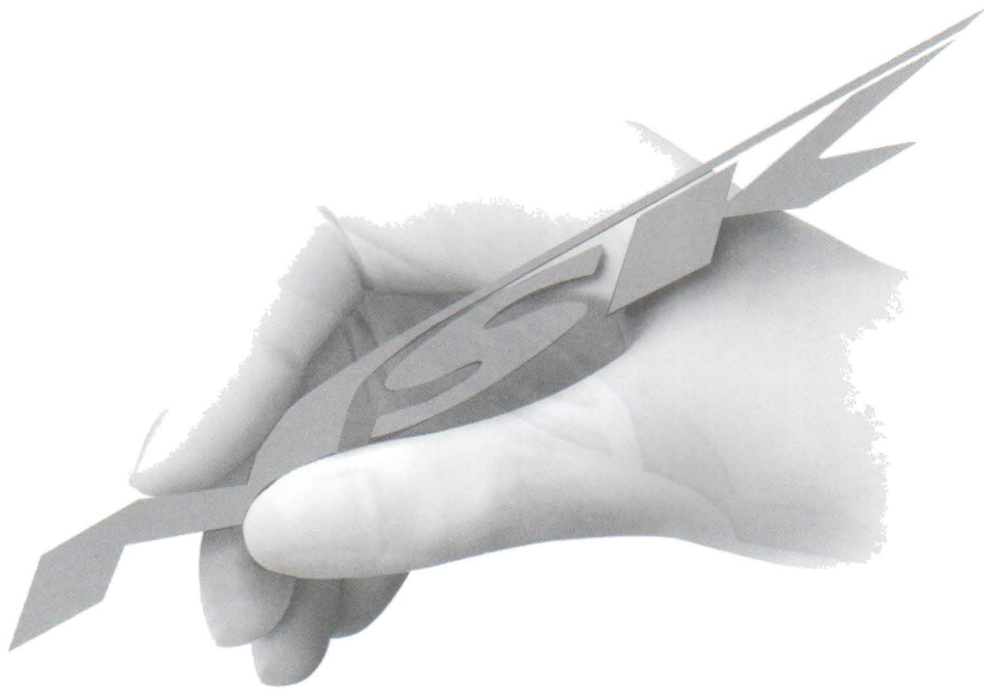
www.iqra.ahlamontada.com



www.iqra.ahlamontada.com

للكتب (کوردی , عربي , فارسي)

NSK handpieces and the human hand Powerful Partners®



In quantifying handpiece performance the most commonly quoted criteria are speed and torque characteristics. NSK recognises that the precision application of NSK handpiece power is especially critical. All handpieces therefore must rest comfortably in any human hand to allow the minute and precise hand movements required to perform delicate precise clinical applications. Tactile sense is a most important requirement.

The design concept for all NSK handpieces especially takes into account the varying strengths, sizes and movement capabilities of human hands. NSK delivers powerful handpiece performance, the human hand delivers the precision application.

NSK handpieces and the human hand – Powerful Partners®.

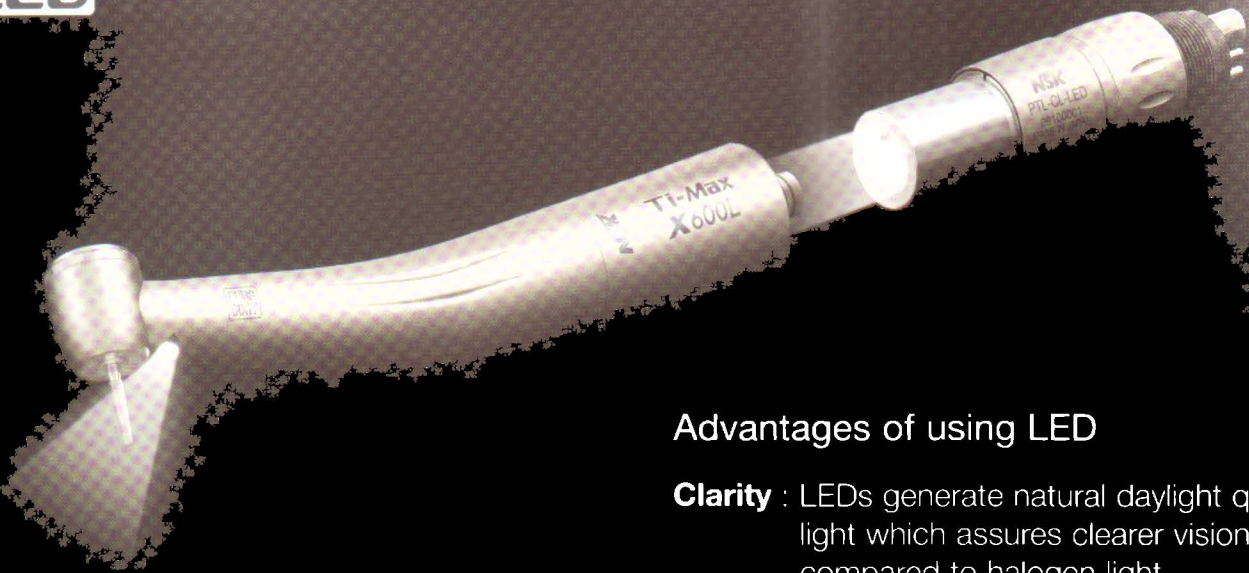
CONTENTS

Specialized in super high-speed rotary cutting technology, NSK delivers a variety of high quality and extremely cost efficient products to the dentistry and industry. Based on a concept of "Develop a product that exceeds users' real needs", NSK focuses on satisfying diverse customers' requirements through timely product development backed up with unparalleled production engineering and innovative technology.

In this summary of the 2010 product catalogue, you will find the variety of products which perfectly suit your exact needs. For more information, please visit our web site www.nsk-inc.com or contact our distributor in your region.

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	PANA-MAX / PANA AIR Σ
11 ~ 12	Upgrading Solutions
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All you need is a NSK LED Coupling



Advantages of using LED

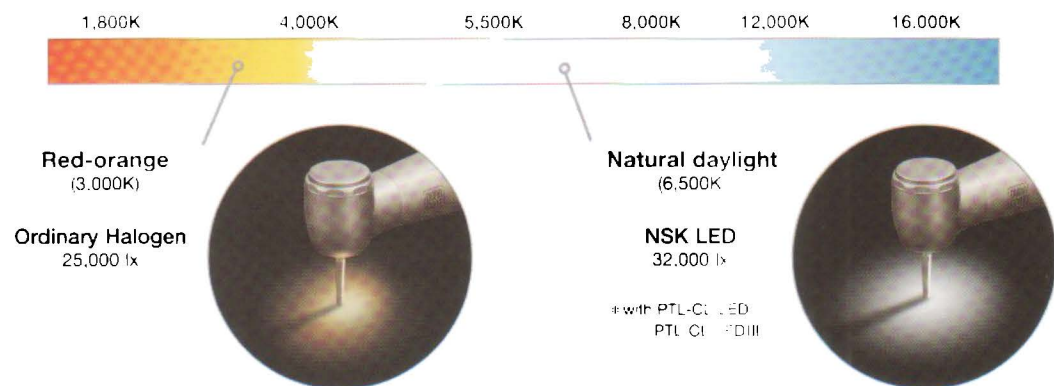
Clarity : LEDs generate natural daylight quality light which assures clearer vision **when** compared to halogen light.

Durability : LED light sources are longer lasting and more durable than halogen bulbs.

UPGRADE all your own optic handpieces from conventional halogen light to the latest technology LED simply by **CHANGING** a coupling!

Colour temperature and Brightness of NSK LED

NSK LED is designed to be a fully energizing colour light, which is warmer than the ordinary halogen light. LED light is equivalent to natural daylight. The brightness of NSK LED is 32,000 lx, which is 1.6 times brighter than the ordinary halogen light.



Figures by NSK Laboratory *with NSK air turbines

Wider illumination area



Ordinary Halogen



NSK LED

NSK LED with natural daylight quality light and wider illumination area. It is suitable for procedures with wider illumination coverage, which helps to reduce fatigue during operation.

Ensuring a stable supply of LED light

Proven Stable and Durable LED systems give consistent LED illuminating quality and LED life expectancy from 10,000 hours under standard conditions.

LED Couplings

- Stainless Steel Body
- Titanium coating
- Non-Retraction Valve
- LED incorporated in coupling



LUX Coupling



Optic MODEL **PTL-CL-LED** ORDER CODE **P1001600**
• For NSK

LED



LUX Coupling



Optic MODEL **PTL-CL-LED III** ORDER CODE **P1001601**
• For NSK with water volume adjuster

LED



LUX Coupling



Optic MODEL **KCL-LED** ORDER CODE **P1005600**
• For KaVo® MULTiflex® LUX with water volume adjuster

LED



LUX Coupling



Optic MODEL **SCL-LED** ORDER CODE **P1009600**
• For Sirona® Quick Coupling with water volume adjuster

LED

NSK FlexiQuik Couplings

- Stainless Steel Body
- Non-Retraction Valve



LUX Coupling



Optic MODEL **PTL-CL-4HV** ORDER CODE **P401051**
• Light bulb included in coupling



LUX Coupling



Optic MODEL **PTL-CL-III** ORDER CODE **P425051**
• Light bulb included in coupling
• With water volume adjuster



Midwest 4 hole



Non-Optic MODEL **FM-CL-M4** ORDER CODE **P434051**



Borden 2 / 3 hole



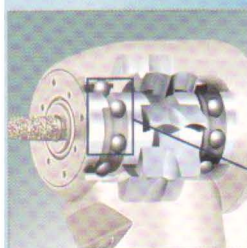
Non-Optic MODEL **FM-CL-B2/B3** ORDER CODE **P432051**

Ti-Max X

eXtreme Premium Series

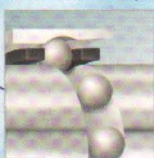
Premium Benefits

Ti-Max X represents the highest levels of excellence in micro technology available to clinicians today.



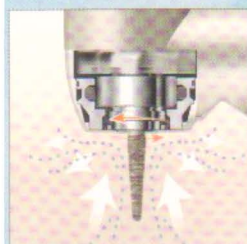
NSK "ISB" Integrated Shaft Bearings

In the NSK ISB, the shaft itself forms the inner race. Unification of the shaft and the inner race provide higher rigidity which it reduces vibration and guarantees more accurate and consistent cutting.



NSK Dual Air Jet

The NSK Dual Air Jet turbine generates up to an unrivalled 22W of power. Two narrow air jets propel the turbine blades which catch the air stream more effectively giving more rotating momentum.



Clean Head System

The patented NSK Clean Head System is a special mechanism designed to automatically prevent the entry of oral fluids and other contaminants into the handpiece head prolonging the life of the bearings.



Quattro Water Spray & Cellular Glass Optics

The NSK Quattro Water Spray effectively cools the entire operating field whilst the cellular glass optic rod delivers light exactly where it is needed.



Solid Titanium Body

Titanium is 30% lighter than stainless steel, more durable and corrosion resistant. The reduced weight and well balanced shape give an unmatched tactile sense.

NSK DURACOAT

DURACOAT, NSK's latest surface enhancement technology, takes advantage of the non allergic and biocompatible properties of titanium to further improve durability. DURACOAT creates a smooth, scratch resistant surface which is comfortable to hold.



Optic / Non-Optic

- Titanium Body with Scratch Resistant DURACOAT
- ISB Turbine • Cellular Glass Optics • Ceramic Bearings
- Clean Head System • Push Button Chuck • Quattro Spray



Miniature Head



Standard Head



Torque Head

	COUPLING TYPE	NSK Optic	NSK Non-Optic	KaVo®	Sirona®	W&H®	Bien-Air®
M (Miniature Head) Speed : 390,000-450,000 min ⁻¹	MODEL	X500L	X500	X500KL	X500SL	X500WL	X500BL
	ORDER CODE	P495	P861	P857	P840	P846	P843
S (Standard Head) Speed : 380,000-440,000 min ⁻¹	MODEL	X600L	X600	X600KL	X600SL	X600WL	X600BL
	ORDER CODE	P496	P862	P858	P841	P847	P844
T (Torque Head) Speed : 300,000-360,000 min ⁻¹	MODEL	X700L	X700	X700KL	X700SL	X700WL	X700BL
	ORDER CODE	P497	P863	P859	P842	P848	P845

■ Miniature Head : Use short shank burs only

Replacement Cartridges

MODEL **TiX-MU03** ORDER CODE **Y900200**

- Cartridge for Miniature head

MODEL **TiX-SU03** ORDER CODE **Y900201**

- Cartridge for Standard head

MODEL **TiX-TU03** ORDER CODE **Y900202**

- Cartridge for Torque head

• Cartridges can be replaced only by authorized NSK dealers.



Washable in the
thermodisinfector



Autoclavable
up to 135°C



Slim Ergonomic Design and Unrivalled Cutting Performance



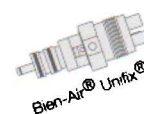
S-Max M series air turbines feature unrivalled cutting performance, a slim body with an ergonomic design and excellent visibility. It has been developed to fulfill dentists' need in their practice.

NSK 'ISB' (Integrated Shaft Bearings) reduce vibration and guarantee more accurate and consistent cutting. For easy maintenance of S-Max M air turbines, cartridges can be replaced easily in your practice helping you to reduce cost and down-time. S-Max M series has been designed without compromise to pay attention to every detail.



Optic / Non-Optic

- Stainless Steel Body • ISB Turbine • Cellular Glass Optics • Ceramic Bearings
- Clean Head System • Push Button Chuck • Quattro Spray



Miniature Head



Standard Head

COUPLING TYPE		NSK Optic	NSK Non-Optic	KaVo® Optic	KaVo® Non-Optic	Sirona®	W&H®	Bien-Air®
M (Miniature Head) Speed 380,000~450,000 min ⁻¹	MODEL	M500L	M500	M500KL	M500K	M500SL	M500WL	M500BL
	ORDER CODE	P1001	P1003	P1005	P1007	P1009	P1013	P1011
S (Standard Head) Speed 360,000~430,000 min ⁻¹	MODEL	M600L	M600	M600KL	M600K	M600SL	M600WL	M600BL
	ORDER CODE	P1002	P1004	P1006	P1008	P1010	P1014	P1012

■ Miniature Head : Use short shank burs

Replacement Cartridges



MODEL **SX-MU03**

ORDER CODE **P1001200**

- Cartridge for Miniature head



MODEL **SX-SU03**

ORDER CODE **P1002200**

- Cartridge for Standard head

Pana-Max PLUS

- Stainless Steel Body
- Ceramic Bearings
- ISB Turbine
- Clean Head System
- Push Button Chuck
- Quattro Spray

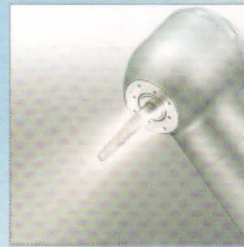
Extremely Slim and Light Weight - Premium Economy Line

The Pana-Max PLUS series of high speed handpieces has been developed to meet expectations in modern dental surgeries. Precision engineered to offer the power and reliability required to perform clinical operations. The new Pana-Max PLUS turbine cartridge delivers increased smoothness, while the bur retention system has been engineered to securely retain the bur under increased torque loads. The stainless steel body is comfortable in hand and is angulated at the optimum degree for excellent visibility of the operating site, without compromise.



Cartridge Replacement

Cartridges are easily replaced in your practice helping you to control cost and down-time. The replacement cartridge incorporates the spray holes to guarantee cartridge and water spray always work well together.



Quattro Water Spray

The NSK Quattro Water Spray effectively cools the entire surface of the bur with a highly cooling effect, leaving no areas untreated.



MODEL **PAP-MU M4** ORDER CODE **P1021**



MODEL **PAP-MU B2** ORDER CODE **P1023**



Miniature Head : • Midwest 4 hole / • Borden 2 hole
• Speed: 380,000-450,000 min⁻¹



MODEL **PAP-SU M4** ORDER CODE **P1022**



MODEL **PAP-SU B2** ORDER CODE **P1024**



Standard Head : • Midwest 4 hole / • Borden 2 hole
• Speed: 340,000-410,000 min⁻¹

Replacement Cartridges



MODEL **SX-MU03**

ORDER CODE **P1001200**

• Cartridge for Miniature head



MODEL **SX-SU03**

ORDER CODE **P1002200**

• Cartridge for Standard head

PANA-MAX

- Ceramic Bearings • Clean Head System
- Push Button Chuck • Single Spray



MODEL **PAX-SU M4** ORDER CODE **P560**



MODEL **PAX-SU B2** ORDER CODE **P562**



Standard Head : • Midwest 4 hole / • Borden 2 hole
• Speed: 380,000-480,000 min⁻¹



MODEL **PAX-TU M4** ORDER CODE **P561**



MODEL **PAX-TU B2** ORDER CODE **P563**



Torque Head : • Midwest 4 hole / • Borden 2 hole
• Speed: 320,000-380,000 min⁻¹

Replacement Cartridges



MODEL **PAX-SU03** ORDER CODE **Y900772**

- Cartridge for standard head



MODEL **PAX-TU03** ORDER CODE **Y900773**

- Cartridge for torque head

PANA AIR Σ

- Wrench Chuck • Single Spray



MODEL **PA-M M4** ORDER CODE **T104**



MODEL **PA-M B2** ORDER CODE **T102**



Miniature Head : • Midwest 4 hole / • Borden 2 hole
• Speed: 380,000-530,000 min⁻¹



MODEL **PA-S M4** ORDER CODE **T114**



MODEL **PA-S B2** ORDER CODE **T112**



Standard Head : • Midwest 4 hole / • Borden 2 hole
• Speed: 380,000-530,000 min⁻¹



MODEL **PA-T M4** ORDER CODE **T134**



MODEL **PA-T B2** ORDER CODE **T132**



Torque Head : • Midwest 4 hole / • Borden 2 hole
• Speed: 300,000-380,000 min⁻¹

Replacement Cartridges



MODEL **NPA-MU03** ORDER CODE **T004**

- Cartridge for Miniature head



MODEL **NPA-SU03** ORDER CODE **T014**

- Cartridge for Standard head



MODEL **NPA-TU03** ORDER CODE **T034**

- Cartridge for Torque head



Pana-Max PLUS and PANA-MAX can be washed in the thermosinfector.



Autoclavable up to 135°C

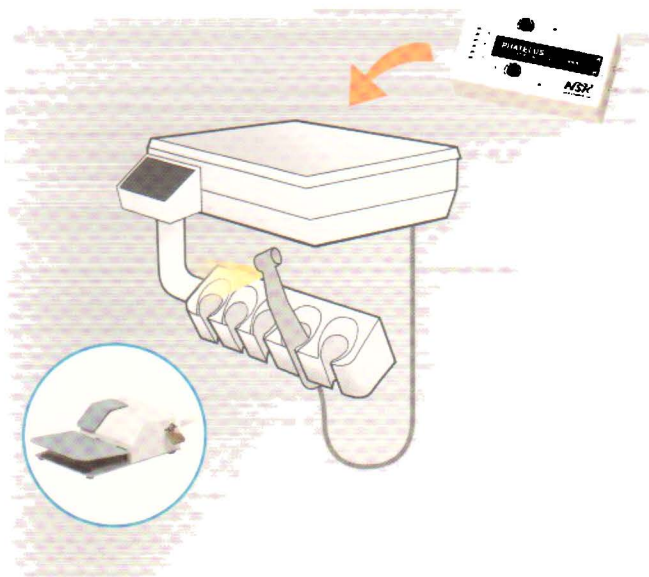
Easy & Affordable Upgrading 1-2-3!

UPGRADE all your conventional non-optic systems to **HIGH CLASS OPTIC SYSTEMS** simply by installing these **NSK add-ons!**

*Handpieces and Couplings are optional

1 Non-optic → Optic Turbine

Just by installing PHATELUS LIGHT PACK, your dental unit can be upgraded to optic system.



PHATELUS LIGHT PACK

Phatelus Optic Upgrading Kit



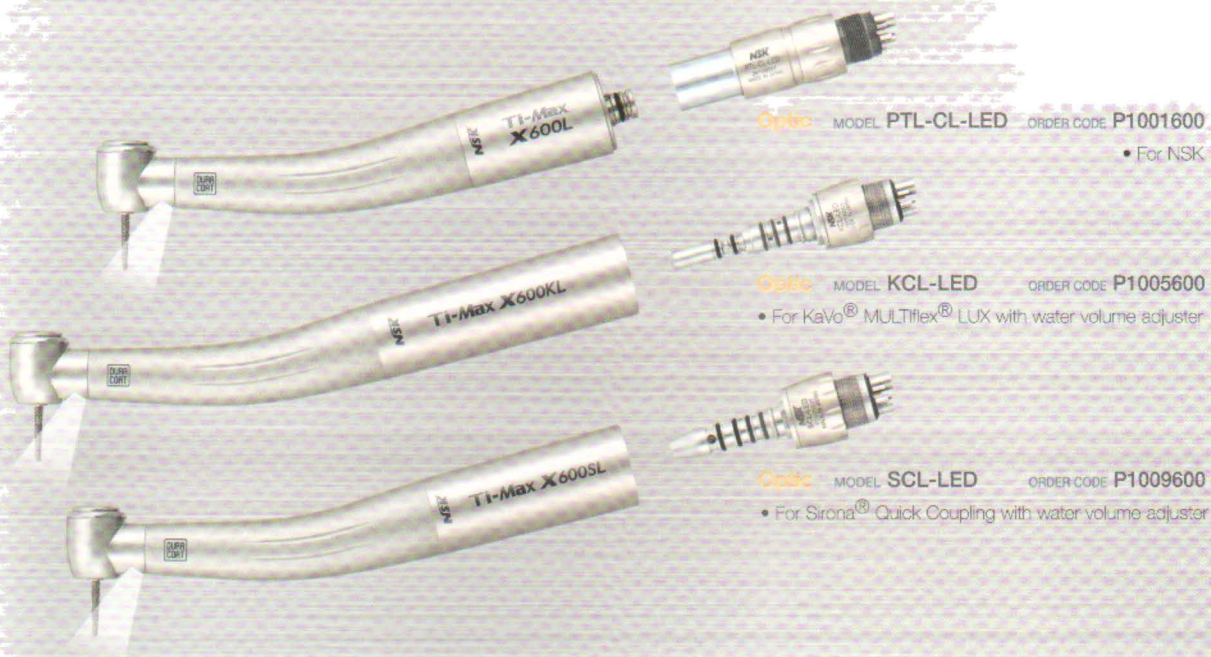
MODEL **PTL Optic Pack (230V)** ORDER CODE **Y103723**

Contents

- PTL Control Module ORDER CODE **U360011**
- Hose (PTL-4HP) ORDER CODE **P421**
- PTL Adaptor ORDER CODE **U360032**

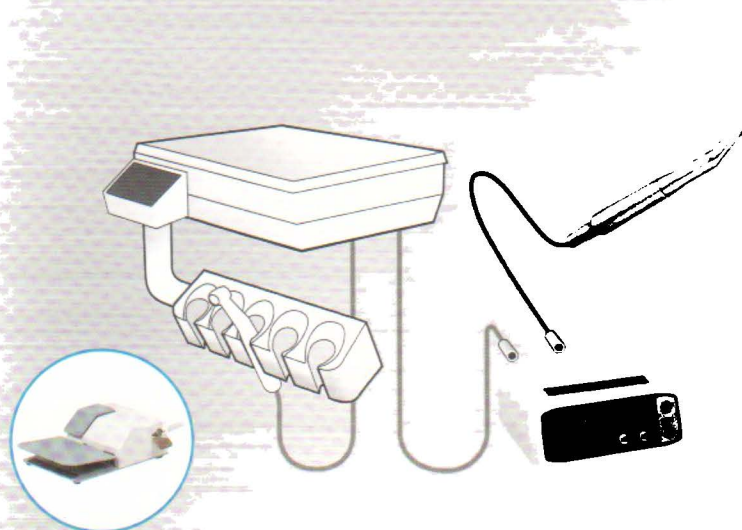
2 Halogen Optic → LED Optic

Just by changing your coupling to new LED, all your own optic handpieces will illuminate LED!



3 Airmotor → LED Optic Electric Motor

Just by installing NLX nano, your air motor unit can be upgraded to electric motor system for speed increaser contra-angle!



*Your existing foot control can operate the motor.

NLX nano Electric Micromotor Upgrading System

MODEL NLX nano S230 (230V)
ORDER CODE Y1001362

Contents

- NLX nano U (Control Unit)
- NLX nano (Motor)
- NLX CD (Cord)
- NLAC (AC Adaptor) 230V

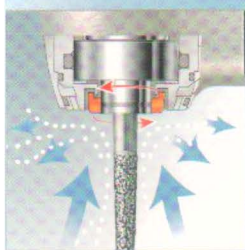
Specifications (Control Unit)

- Rated Input : AC 230V 50/60 Hz
- Dimensions : W127 x D149 x H54 (mm)
- Weight : 517 g

Ti-Max X

eXtreme Premium Series

Outstanding Benefits



Clean Head System

The patented NSK Clean Head System is a special mechanism designed to automatically prevent the entry of oral fluids and other contaminants into the handpiece head prolonging the life of the bearings.



Ceramic Bearings

Ceramic Bearings are 25% harder than conventional steel bearings but are only half the weight. Because frictional wear between the ball bearings and the bearing retainer is significantly reduced the efficiency and durability is significantly increased. (X95L / X95 / X85L / X85)



Quattro Water Spray & Cellular Glass Optics

The NSK Quattro Water Spray effectively cools the entire operating field whilst the cellular glass optic rod delivers light exactly where it is needed. (Quattro Water Spray: X95L / X95)



Solid Titanium Body

Titanium is 30% lighter than stainless steel, more durable and corrosion resistant. The reduced weight and well balanced shape give an unmatched tactile sense.

Quiet and No Vibration

NSK ultra-precision micro machining technology know-how has been applied to design an internal gearing system that remarkably reduces noise and vibration to the lowest level resulting in improved comfort for patients and clinicians.

NSK DURACOAT

DURACOAT, NSK's latest surface enhancement technology, takes advantage of the non allergic and biocompatible properties of titanium to further improve durability. DURACOAT creates a smooth, scratch resistant surface which is comfortable to hold.



Optic / Non-Optic

- Titanium Body with Scratch Resistant DURACOAT
- Cellular Glass Optics
- Clean Head System
- Push Button Chuck (X95L/X95, X25L/X25, X15L/X15)



Optic MODEL **X95L** ORDER CODE **C600**

Non-Optic MODEL **X95** ORDER CODE **C610**

- 1:5 Increasing** • Quattric Spray • For FG burs (ø1.6)
• Ceramic Bearings • Max. 200,000 min⁻¹



Optic MODEL **X25L** ORDER CODE **C601**

Non-Optic MODEL **X25** ORDER CODE **C611**

- 1:1 Direct Drive** • Single Spray • For CA burs (ø2.35)
• Max. 40,000 min⁻¹



Optic MODEL **X15L** ORDER CODE **C602**

Non-Optic MODEL **X15** ORDER CODE **C612**

- 4:1 Reduction** • Single Spray • For CA burs (ø2.35)
• Max. 10,000 min⁻¹

Straight Handpiece



Optic MODEL **X65L** ORDER CODE **H273**

- 1:1 Direct Drive** • Single Spray • For HP burs (ø2.35)
• For CA burs (ø2.35)*
• Need to insert the supplied bur scooper
• Max. 40,000 min⁻¹



Washable in the
thermosinfector

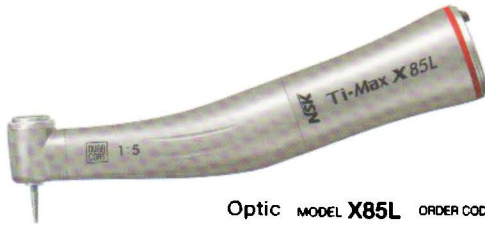


Autoclavable
up to 135°C

Ti-Max X

Optic / Non-Optic

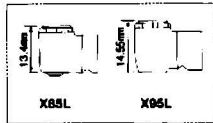
- Titanium Body with Scratch Resistant DURACOAT • Cellular Glass Optics • Clean Head System
- Push Button Chuck (X85L/X85, X10L/X10, X20L/X20, X35L/X35, X70L/X70, X75L/X75)



Optic MODEL **X85L** ORDER CODE **C604**

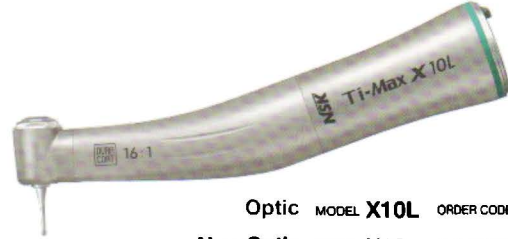
Non-Optic MODEL **X85** ORDER CODE **C614**

- 1:5 Increasing** • Single Spray • Miniature Head
- For FG burs (ø1.6) • Ceramic Bearings • Max Speed: 200,000 min⁻¹
 - For Short Shank burs only



Head size comparison

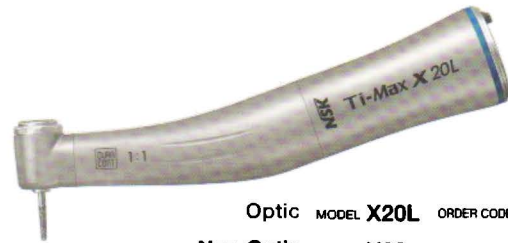
X95L / X95 is the smallest 1:5 speed increasing head to ever be produced with multiple Quattro Water Spray ports. X85L / X85 is the smallest speed increasing head ever produced. Both heads offer excellent visibility.



Optic MODEL **X10L** ORDER CODE **C603**

Non-Optic MODEL **X10** ORDER CODE **C613**

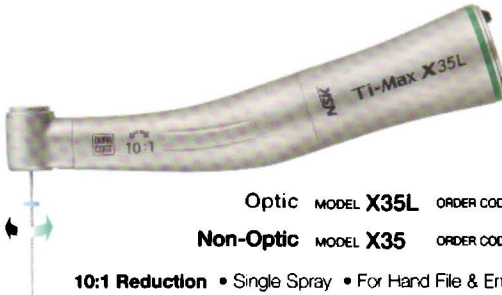
- 16:1 Reduction** • Single Spray • For CA burs (ø2.35)
- Max Speed: 2,500 min⁻¹



Optic MODEL **X20L** ORDER CODE **C605**

Non-Optic MODEL **X20** ORDER CODE **C615**

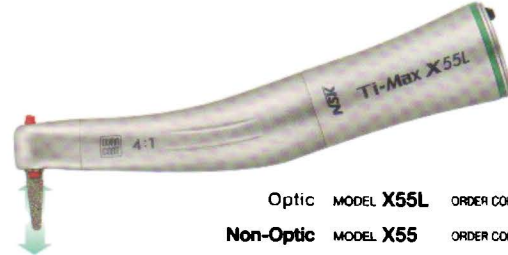
- 1:1 Direct Drive** • Single Spray • For FG burs (ø1.6)
- Max Speed: 40,000 min⁻¹



Optic MODEL **X35L** ORDER CODE **C620**

Non-Optic MODEL **X35** ORDER CODE **C624**

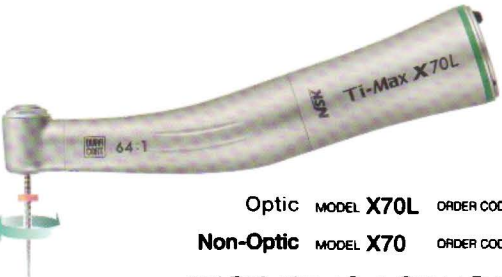
- 10:1 Reduction** • Single Spray • For Hand File & Engine File
- 60° Twist • Max Speed: 4,000 min⁻¹



Optic MODEL **X55L** ORDER CODE **C608**

Non-Optic MODEL **X55** ORDER CODE **C618**

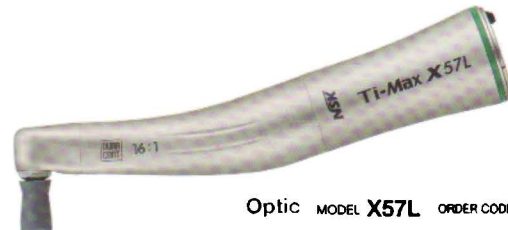
- 4:1 Reduction** • Single Spray • For Profin / EVA Tips
- Vertical Reciprocating (Stroke Length 1.4mm)
 - Laminar Tips not included • Max Speed: 10,000 min⁻¹



Optic MODEL **X70L** ORDER CODE **C622**

Non-Optic MODEL **X70** ORDER CODE **C626**

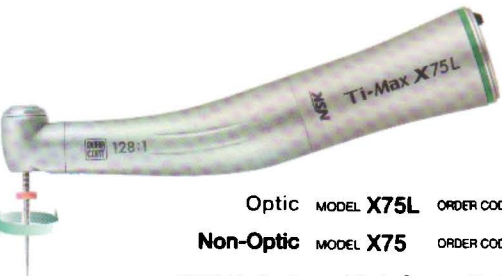
- 64:1 Reduction** • Single Spray • For Ni-Ti File
- 360° Rotation • Max Speed: 300 min⁻¹



Optic MODEL **X57L** ORDER CODE **C609**

Non-Optic MODEL **X57** ORDER CODE **C619**

- 16:1 Reduction** • For Screw-in Cups and Brushes
- 360° Rotation • w/o Spray • Max Speed: 2,500 min⁻¹



Optic MODEL **X75L** ORDER CODE **C623**

Non-Optic MODEL **X75** ORDER CODE **C627**

- 128:1 Reduction** • Single Spray • For Ni-Ti File
- 360° Rotation • Max Speed: 300 min⁻¹

■ Please keep the rotation speed as your file manufactures designate.



Washable in the
thermosanitizer



Autoclavable
up to 135°C



Optic / Non-Optic

- Stainless Steel Body • Cellular Glass Optics • Clean Head System
- Push Button Chuck (M95L / M95, M25L / M25, M15L / M15)



Optic MODEL **M95L** ORDER CODE **C1023**

Non-Optic MODEL **M95** ORDER CODE **C1026**

- 1:5 Increasing** • Quattro Spray • For FG burs (ø1.6)
• Ceramic Bearings • Max Speed: 200,000 min⁻¹



Optic MODEL **M25L** ORDER CODE **C1024**

Non-Optic MODEL **M25** ORDER CODE **C1027**

- 1:1 Direct Drive** • Single Spray • For CA burs (ø2.35)
• Max. 40,000 min⁻¹



Optic MODEL **M15L** ORDER CODE **C1025**

Non-Optic MODEL **M15** ORDER CODE **C1028**

- 4:1 Reduction** • Single Spray • For CA burs (ø2.35)
• Max. 10,000 min⁻¹

Straight Handpiece



Non-Optic MODEL **M65** ORDER CODE **H1008**

- 1:1 Direct Drive** • Single Spray
• For HP burs (ø2.35) • For CA burs (ø2.35)*
*Need to insert the supplied bur stopper
• Max. 40,000 min⁻¹

EX Series Heads & Shanks External Water Spray **Non-Optic**

Heads for General Application



- MODEL FPB-Y ORDER CODE C875**
- For CA burs (ø2.35) • Clean Head System
 - Push Button Chuck • Ball Bearing
 - Max Speed: 40,000 min⁻¹



- MODEL NAC-Y ORDER CODE C032002**
- For CA burs (ø2.35) • Latch type
 - Max Speed: 30,000 min⁻¹



- MODEL BB-Y ORDER CODE C037**
- For CA burs (ø2.35) • Latch type
 - Ball Bearing • Max Speed: 40,000 min⁻¹



- MODEL NBBW-Y ORDER CODE C211**
- For CA burs (ø2.35) • Latch type
 - Ball Bearing • With Water Nozzle
 - Max Speed: 40,000 min⁻¹



- MODEL NM-Y ORDER CODE C247**
- Miniature head • Latch type
 - For CA burs (ø2.35)
 - Max Speed: 30,000 min⁻¹



- MODEL FFB-Y ORDER CODE C884**
- For FG burs (ø1.6) • Clean Head System
 - Push Button Chuck
 - Max Speed: 40,000 min⁻¹



- MODEL NRS2-Y ORDER CODE C549**
- 10:1 Reduction • For CA burs (ø2.35)
 - Clean Head System • Push Button Chuck
 - Max Speed: 3,000 min⁻¹

Heads for Prophylaxis Application



- MODEL AR-Y (S) ORDER CODE C187**
- For screw-in cups and brushes
 - Max Speed: 5,000 min⁻¹



- MODEL AR-Y (K) ORDER CODE C188**
- For snap-on cups
 - Max Speed: 5,000 min⁻¹



- MODEL EVA-Y ORDER CODE C235**
- For Eva tips
 - Varical Reciprocating (Stroke Length 1.4mm)
 - Max Speed: 10,000 min⁻¹

Heads for Endodontic Application



- MODEL MP-Y ORDER CODE C547**
- Miniature Head • Push Button Chuck
 - Max Speed: 20,000 min⁻¹



- MODEL MPA-Y ORDER CODE C548**
- Connection for Apex locator (For long shank)
 - Miniature Head • Push Button Chuck
 - Max Speed: 20,000 min⁻¹



- MODEL MPAS-Y ORDER CODE C882**
- Connection for Apex locator (For short shank)
 - Miniature Head • Push Button Chuck
 - Max Speed: 20,000 min⁻¹



- MODEL TEQ-Y ORDER CODE C849001**
- 80° Twist • For engine files (ø2.35)
 - Push Button Chuck • Max Speed: 4,000 min⁻¹



- MODEL TEP-Y ORDER CODE C837001**
- 60° Twist • For hand files
 - Push Button Chuck • Max Speed: 4,000 min⁻¹

Shanks



- MODEL EC-30 ORDER CODE C100008**
MODEL EC-30M ORDER CODE C100007
- 1:1 Direct Drive



- MODEL ER4 ORDER CODE C634**
MODEL ER4M ORDER CODE C634002
- 4:1 Reduction



- MODEL ER10 ORDER CODE C635**
MODEL ER10M ORDER CODE C635002
- 10:1 Reduction



- MODEL ER16 ORDER CODE C636**
MODEL ER16M ORDER CODE C636002
- 16:1 Reduction



- MODEL ER64 ORDER CODE C637**
MODEL ER64M ORDER CODE C637002
- 64:1 Reduction



FPB-Y, FFB-Y, NRS2-Y, AR-Y (S), AR-Y (K), EVA-Y, MP-Y, MPA-Y, MPAS-Y, TEP-Y, EC-30M, ER4M, ER10M, ER16M and ER64M can be washed in the thermodeinfector.

135°C Autoclavable up to 135°C

EX Series Handpieces

External Water Spray **Non-Optic**

For General Application

1:1 Direct Drive



MODEL **FPB-EC** ORDER CODE **Y110158**
MODEL **FPB-ECM** ORDER CODE **Y110168**

- For CA burs (ø2.35) • Clean Head System • Push Button Chuck
- Ball Bearing • Max Speed: 40.000 min⁻¹



MODEL **NAC-EC** ORDER CODE **Y110148**

- For CA burs (ø2.35) • Latch type
- Max Speed: 30.000 min⁻¹

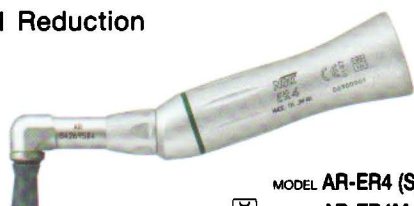


MODEL **BB-EC** ORDER CODE **Y110159**

- For CA burs (ø2.35) • Latch type
- Ball Bearing • Max Speed: 40.000 min⁻¹

For Prophylaxis Application

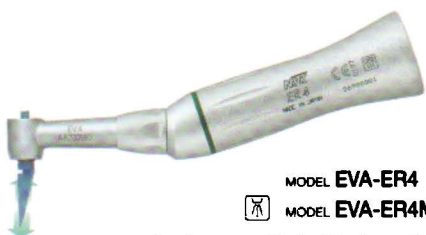
4:1 Reduction



MODEL **AR-ER4 (S)** ORDER CODE **Y110140**

MODEL **AR-ER4M (S)** ORDER CODE **Y110181**

- For screw-in cups and brushes • 360° Rotation
- Max Speed: 5.000 min⁻¹



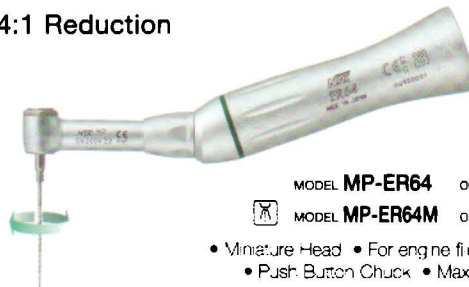
MODEL **EVA-ER4** ORDER CODE **Y110141**

MODEL **EVA-ER4M** ORDER CODE **Y110182**

- For Eva tips • Vertical Reciprocating (Stroke Length 1.4mm)
- Max Speed: 10.000 min⁻¹

For Endodontic Application

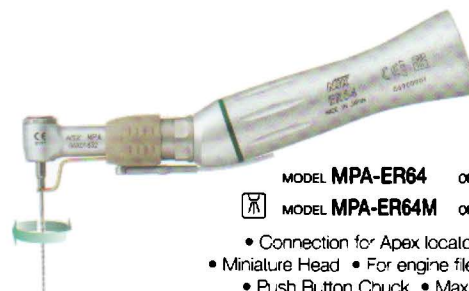
64:1 Reduction



MODEL **MP-ER64** ORDER CODE **Y110142**

MODEL **MP-ER64M** ORDER CODE **Y110183**

- Miniature Head • For engine files • 360° Rotation
- Push Button Chuck • Max Speed: 300 min⁻¹



MODEL **MPA-ER64** ORDER CODE **Y110144**

MODEL **MPA-ER64M** ORDER CODE **Y110184**

- Connection for Apex locator (Long shank files)
- Miniature Head • For engine files • 360° Rotation
- Push Button Chuck • Max Speed: 300 min⁻¹

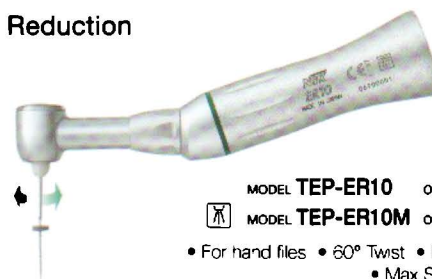


MODEL **MPAS-ER64** ORDER CODE **Y110146**

MODEL **MPAS-ER64M** ORDER CODE **Y110185**

- Connection for Apex locator (Short shank files)
- Miniature Head • For engine files • 360° Rotation
- Push Button Chuck • Max Speed: 300 min⁻¹

10:1 Reduction



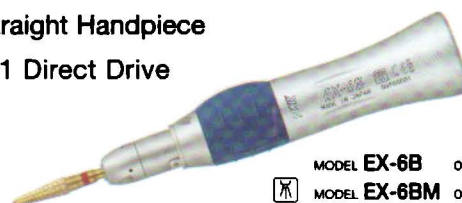
MODEL **TEP-ER10** ORDER CODE **Y110145**

MODEL **TEP-ER10M** ORDER CODE **Y110187**

- For hand files • 60° Twist • Push Button Chuck
- Max Speed: 4.000 min⁻¹

Straight Handpiece

1:1 Direct Drive



MODEL **EX-6B** ORDER CODE **H260001**

MODEL **EX-6BM** ORDER CODE **H260002**

- For HP burs (ø2.35) • Clean Head System
- Max Speed: 40.000 min⁻¹

Replacement Parts



MODEL **FPB-03** ORDER CODE **C875060**
• Cartridge for FPB



MODEL **NAC-03** ORDER CODE **C030011**
• Cartridge for NAC



MODEL **BB-03** ORDER CODE **C037015**
• Cartridge for BB



MODEL **Spray Nozzle** ORDER CODE **C032701**
• For NAC, BB, FPB, FFB, TEP



MODEL **Spray Nozzle** ORDER CODE **C039701**
• For NM



MODEL **Spray Nozzle** ORDER CODE **H019711**
• For EX-6B



MODEL **FPB-02** ORDER CODE **C875012**
• Middle Gear



MODEL **NAC-02** ORDER CODE **C032012**
• Middle Gear



FPB-ECM, AR-ER4M (S) and EVA-ER4M can be washed in the thermodesinfector.



Autoclavable up to 135°C

NLX nano

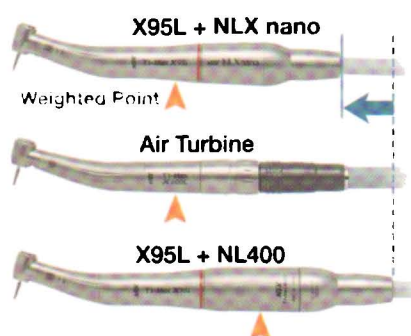
A New Generation of Micromotor as well balanced as an Air Turbine

NLX nano has been designed at minimum weight and size to improve the balance of instrument and motor in the hand of clinician, reducing fatigue during prolonged procedures.

Despite its small size and light weight, the NLX nano is as powerful as our regular size micromotors while it offers wider range of speeds. Its 180° Vector Control assures smooth and stepless control over the entire speed range. Thanks to LED illumination, it now delivers 32,000 LUX*, natural daylight quality light and assures clearer vision, reducing fatigue during operation.

Feel the premium quality of our NLX nano micromotor. That's NSK quality.

*Figures by NSK laboratory



Perfect Balance

The balance of the motor and instrument combined has been dramatically improved as the weight and size of NLX nano has been reduced drastically.

The overall length of instrument and NLX nano micromotor are almost the same as the length of air turbines and couplings, thus enabling practitioners use contra-angles and NLX nano micromotors just like the use of air turbines.

Wider clinical applications

NLX nano covers a wide speed range and is compatible with your existing optic and non-optic contra-angles. Combined with a wide range of contra-angles, it covers a speed range of 100 – 200,000 min⁻¹, to make it suitable for any applications.

	100	1,000	2,000	2,500	10,000	40,000	200,000
X10L 16:1	100-2,500 min ⁻¹						
X25L 1:1			2,000-40,000 min ⁻¹				
X95L 1:5						10,000-200,000 min ⁻¹	

NLX nano

Optic
Internal Water Spray

BRUSHLESS



Electric Micromotor Upgrading System with Memory Program

Speed : 2,000 – 40,000 min⁻¹, Torque : 3.4 Ncm

MODEL **NLX nano S230 (230V)** ORDER CODE **Y1001362**

Contents

- NLX nano U (Control Unit)
- NLX nano (Motor)
- NLX CD (Cord)
- NI AC (AC Adaptor) 230V

Specifications (Control Unit)

- Rated Input : AC 28V 50/60 Hz
- Output : 18 VAC
- Dimensions : W127 x D149 x H54 (mm)
- Weight : 517 g



Ti-Max NL400

Optic
Internal Water Spray

BRUSHLESS

Electric Micromotor Upgrading System with Memory Program

Speed : 2,000 – 40,000 min⁻¹, Torque : 3.4 Ncm

MODEL **NL400 System (230V)**

ORDER CODE **Y141131**

Contents

- NL400U (Control Unit)
- Ti-Max NL400 MC (Motor)
- Ti-Max NL400 CD (Cord)
- NI AC (AC Adaptor) 230V

Specifications (Control Unit)

- Rated Input : AC 28V 50/60 Hz
- Output : 18 VAC
- Dimensions : W127 x D149 x H54 (mm)
- Weight : 517 g



Ti-Max EL400

Optic
Internal Water Spray

Electric Micromotor Upgrading System

Speed : 1,000 – 40,000 min⁻¹, Torque : 2.75 Ncm

MODEL **EL400 JS230 (230V)**

ORDER CODE **Y140937**

Contents

- EL400U (Control Unit)
- TIM40 U (Motor)
- EL400-CD (Cord)
- ELAC (AC Adaptor) 230V

Specifications (Control Unit)

- Rated Input : 24 VAC 50/60 Hz
- Output : 22 VDC
- Dimensions : W110 x D140 x H46 (mm)
- Weight : 400 g

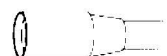


Ti-Max M40B



Internal Water Spray
Compatible with Bien-Air® MC3®

Easy to connect to Bien-Air® 4VLM and 4VR 400 hoses



Bien-Air® 4VLM / 4VR 400
(Made by Bien-Air Dental S.A.)



MODEL **M40B LED** ORDER CODE **E1039**

Optic

MODEL **M40B** ORDER CODE **E286**

Non-Optic

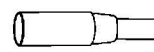
MODEL **M40BN** ORDER CODE **E341**

Ti-Max M40

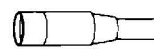


Internal Water Spray

Easy to connect to Bien-Air® 4VLM and 4VR 400 hoses



NSK
M40-CD



Bien-Air®
4VLM / 4VR 400
(Made by Bien-Air Dental S.A.)



MODEL **M40 LED** ORDER CODE **E1033**

Optic

MODEL **M40** ORDER CODE **E317**

Non-Optic

MODEL **M40N** ORDER CODE **E338**

■ M40B is not permitted to be imported into, sold and/or used in the following countries due to a patent restriction : Germany, France, Austria, Switzerland, Italy, Denmark and Liechtenstein.

Electric Micromotor Integrated Systems

NLXnano Optic Internal Water Spray **LED**

Electric Micromotor Integrated System

BRUSHLESS

Speed : 1,000 – 40,000 min⁻¹

Torque : 3.4 Ncm



NLXplus Optic Internal Water Spray **LED**

Electric Micromotor Integrated System
with Endo Function featuring Torque Control and Auto Reverse

BRUSHLESS

Speed : 100 – 40,000 min⁻¹

Torque : 4.0 Ncm



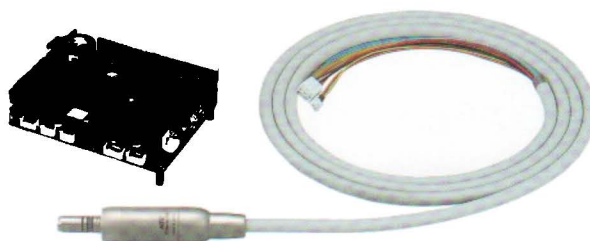
Ti-Max NL400 Optic Internal Water Spray

Electric Micromotor Integrated System

BRUSHLESS

Speed : 2,000 – 40,000 min⁻¹

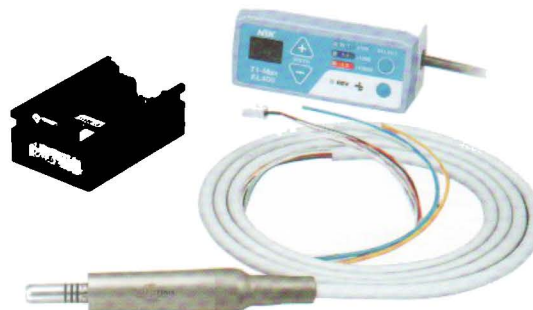
Torque : 3.4 Ncm



Ti-Max EL400 Optic Internal Water Spray

Electric Micromotor Integrated System

Speed : 1,000 – 40,000 min⁻¹



Air Motors CLINICAL MICROMOTORS

Ti205L Optic Air Motor Optic Internal Water Spray

1:1 Direct Drive




Optic MODEL **Ti205L** ORDER CODE **M190** 
 • Internal Spray • UX Coupling • Non Retraction Valve
 • Max Speed: 20,000 min⁻¹

IS-205 Air Motors Non-Optic Internal Water Spray

1:1 Direct Drive



Non-Optic MODEL **IS-205 M4** ORDER CODE **M156** 
 • Midwest 4 hole • Non-Retraction Valve • Max Speed: 20,000 min⁻¹

Non-Optic MODEL **IS-205 B2/B3** ORDER CODE **M154** 
 • Borden 2 hole • Non-Retraction Valve • Max Speed: 22,000 min⁻¹

EX-203C Air Motors Non-Optic External Water Spray

1:1 Direct Drive

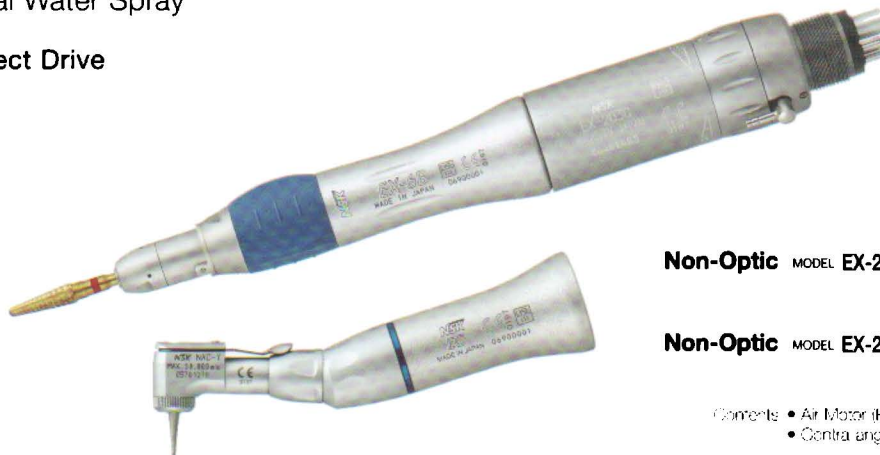


Non-Optic MODEL **EX-203C M4** ORDER CODE **M195** 
 • Midwest 4 hole • Max Speed: 20,000 min⁻¹


Non-Optic MODEL **EX-203C B2** ORDER CODE **M194** 
 • Borden 2 hole • Max Speed: 22,000 min⁻¹

EX-203C Air Motor Pack (EX-203C+EX-6B+NAC-EC) Non-Optic External Water Spray

1:1 Direct Drive



Non-Optic MODEL **EX-203C M4 Pack** ORDER CODE **Y160020** 
 • Midwest 4 hole

Non-Optic MODEL **EX-203C B2 pack** ORDER CODE **Y160021** 
 • Borden 2 hole

Contents • Air Motor (EX-203C) • Straight handpiece (EX-6B)
 • Contra angle handpiece (NAC-EC)

Varios 970

Optic / Non-Optic



MULTI FUNCTION ULTRASONIC SCALER

Optimum Clinical Versatility

Varios 970 is a stand-alone device with two irrigation bottles. Varios 970 features the new NSK iPiezo engine offering you more effective treatment in all applications together with a wide range of tips.

The Varios 970 LUX features twin LED lights, assuring generally clearer vision and allowing easier identification of calculus and plaque during oral hygiene and scaling procedures.

Advantages

- All-in – Stylish compact all-in one unit for Periodontic, Endodontic, Scaling, MI applications and Implant maintenance
- Stable vibration and power by newly developed iPiezo engine
- Convenient large capacity bottles of 400ml each or different solutions with independent pumps
- Excellent illumination of the treatment area is guaranteed by the twin LEDs guided through twin glass rods

Powered by
iPiezo engine



Varios 970 Complete Sets



Optic **Varios 970 Optic Complete Set**

MODEL **VA970 LUX (230V)** ORDER CODE **Y1001168**

Non-Optic **Varios 970 Non-Optic Complete Set**

MODEL **VA970 (230V)** ORDER CODE **Y1001175**

Contents

- Control unit • Handpiece • Handpiece cord • 3 Scaling tips (G4, G6, G8) • Foot control (FC-70)
- 2 x Irrigation Bottles • 3 x Tip replacement wrench with torque limiter • AC Power cord • Sterilization case

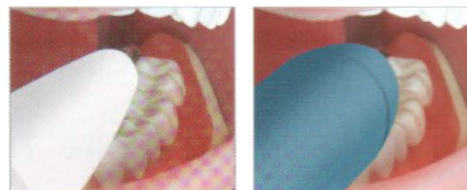
Specifications

- Power Supply : AC 230V 50/60 Hz
- Frequency : 28-32 KHz
- Max. output : 1* W (G mode)
- Dimensions : W160 x D260 x H80 (mm)
- Unit weight : 2.2 kg
- Bottle volume : 400 mL (x 2 bottles)

Well balanced, slim and lightweight handpiece

With using the slimmest handpiece excellent accessibility and high visibility are ensured, offering comfortable use.

The handpiece can be repeatedly autoclaved up to 135°C.

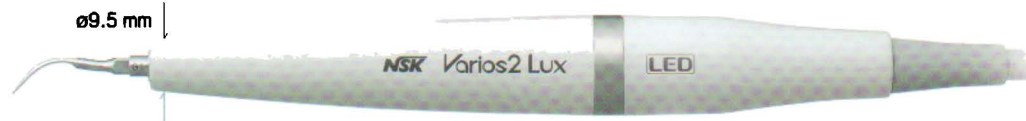


NSK

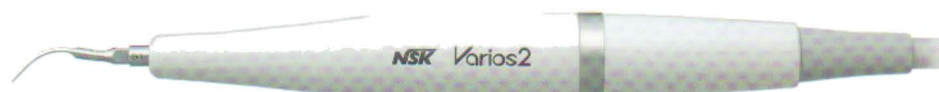
Competitor A

slimmest and lightest *

ø9.5 mm



LED Optic Handpiece VA2-LUX HP



Non-Optic Handpiece VA2-IP HP



NSK LED delivers natural daylight quality light bringing significant advantages to the way you work.

Clarity : LEDs generate natural daylight quality light which assures clearer vision when compared to halogen light.

Durability : LED light sources are longer lasting and more durable than halogen bulbs.

*as of Nov.2009

Features

- Easily changeable solution bottles
- Designed for easy on site maintenance
- Touch control mode indicator Endo, Perio, General Mode
- Clear power display for 10 power and irrigation flow setting
- Easy to use memory function to store user settings
- Touch control irrigation status selection. Choose between dry, bottled water and external water
- Dual water adjustment controls for bottled or external water



Large LCD Display

All operating parameters are clearly displayed on the large LCD display controlled by easily recognizable buttons.



Sterilization Case

The handpiece, tips and tip wrenches can be sterilized together for your convenience



Auto Cleaning Mode

The Auto Cleaning Mode flushes the tubing, handpiece and tips at the push of a button after the use of special solutions, active Varios 970 auto cleaning mode to wash 2 water channels independently.



360° Foot Control

New Varios 970 foot control can be easily operated from any angle.

Varios 170

Optic / Non-Optic



INTEGRATED MULTI FUNCTION ULTRASONIC SCALER

The Smallest Module for Easy Integration into Any Type of Dental Unit

Varios 170 is the world's smallest built-in optic control module*.

It features the new NSK iPiezo engine which ensures stable power output all the times. The new slimmer and extremely lightweight handpiece with twin LED is easily added to the existing handpiece delivery unit and is controlled via the existing foot control.

*as of Nov. 2009

Powered by
iPiezo engine



Specifications

- Power Supply : AC 24V \pm 10% (or 2024-36V)
- Frequency : 28.52 KHz
- Max. output : 11 W
- Dimensions : W63 x D54 x H28 mm
- Unit weight : 59 g

Sterilization Case

The handpiece, tips and tip wrenches can be sterilized together for your convenience.



Varios 170 Complete Sets



Optic Varios 170 Optic Complete Set

MODEL VA170LUXS1 ORDER CODE Y1001351

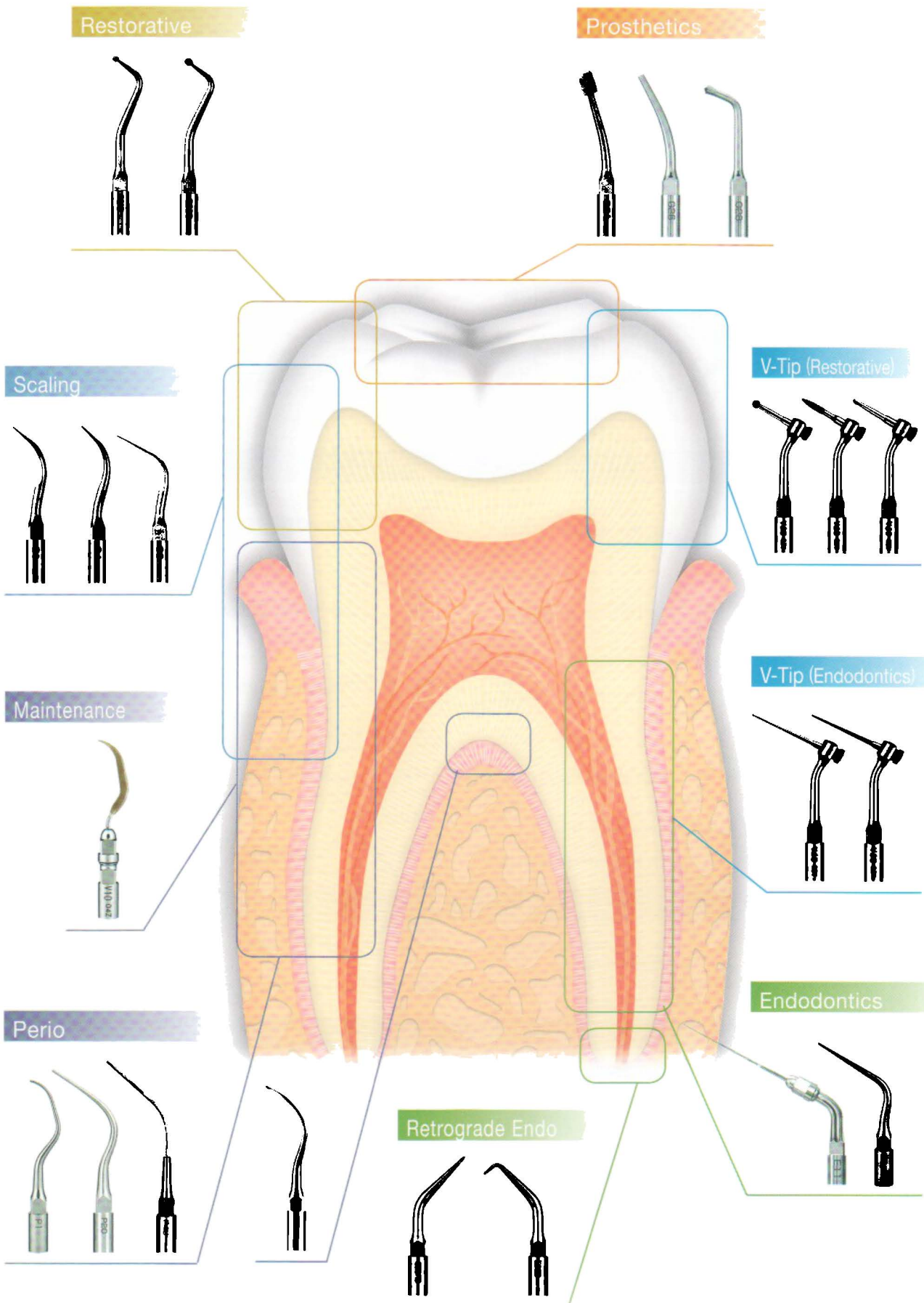
Non-Optic Varios 170 Non-Optic Complete Set

MODEL VA170S1 ORDER CODE Y1001352

Contents

- Built-in module • Handpiece • Handpiece cord • 3 Scaling tips (S1, F2, F3)
- 3 x Tip replacement wrench with tip wrench • Sterilization case

NSK Offers A Wide Choice of Various Ultrasonic Scaler Tips for Clinical Applications.

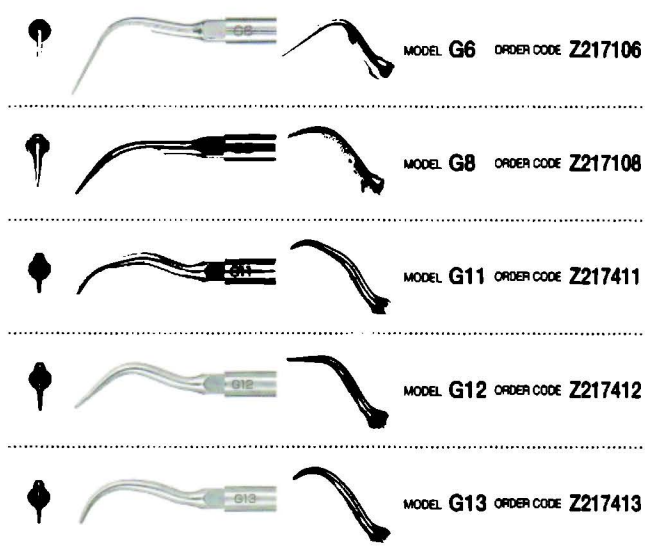
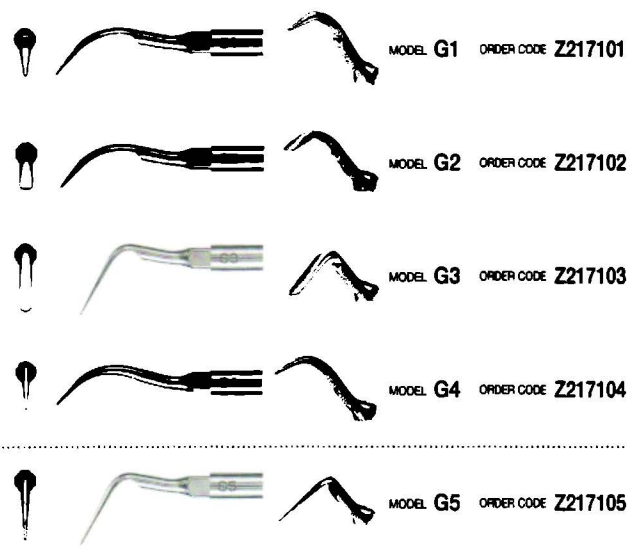


Varios2 / Varios Ultrasonic Scaler Tips

*Varios Tips are compatible with Satelec®.

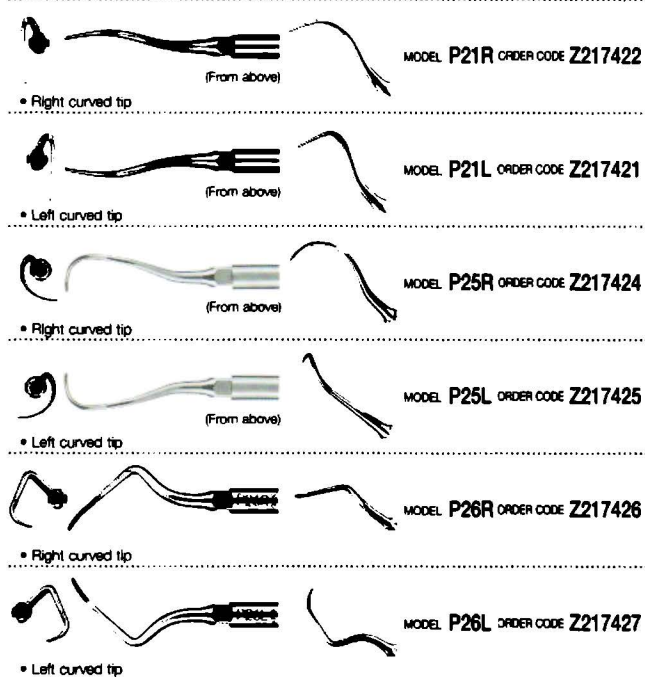
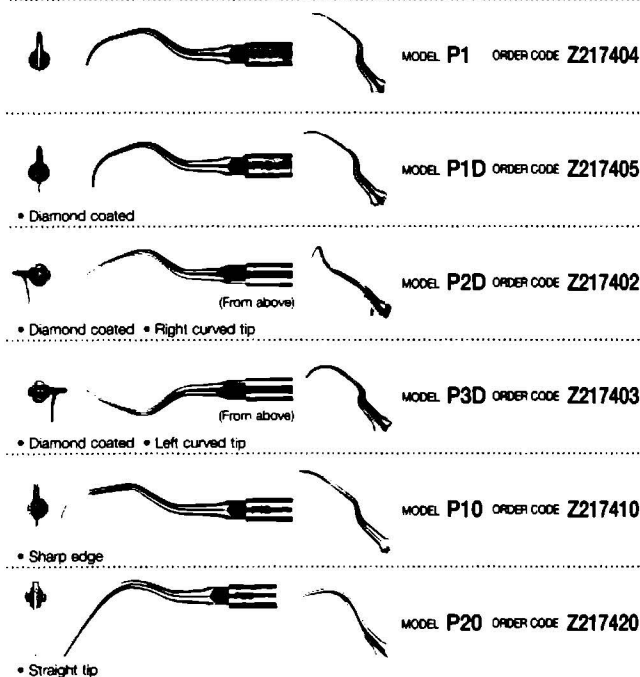
Varios Ultrasonic Scaler Tips

Scaling



Varios Ultrasonic Scaler Tips

Perio (Root Planing)



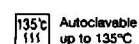
Varios Ultrasonic Scaler Tips

Perio (Irrigation and Cleaning)



Varios Ultrasonic Scaler Tips

Maintenance





MODEL E4 ORDER CODE Z217428

• For root canal cleaning



MODEL E4D ORDER CODE Z217528

• Diamond coated • For root canal enlargement



MODEL E5 ORDER CODE Z217305

• Water not required • Lateral condensation



MODEL E6 ORDER CODE Z217306

• Water not required • Lateral condensation



MODEL E15D ORDER CODE Z217319

• Diamond coated • For locating root canals



MODEL E11 ORDER CODE Z217031

• For U files (Shand dia : 0.8mm) • For root canal cleaning • For anterior teeth



MODEL E12 ORDER CODE Z217032

• For U files (Shand dia : 0.8mm) • For root canal cleaning • For posterior teeth

Each pack of E11, E12, or V30 includes 1 x E Tip replacement wrench.
Replacement wrench is not included when ordering other tips.
Please order the replacement wrench separately in this instance.



MODEL E7 ORDER CODE Z217307

• Water not required • Removal of filling and foreign material



MODEL E7D ORDER CODE Z217317

• Diamond coated • Enlargement of root canal wall



MODEL E8 ORDER CODE Z217308

• Water not required • Removal of filling and foreign material



MODEL E8D ORDER CODE Z217318

• Diamond coated • Enlargement of root canal wall

• E Tip Replacement Wrench (optional) is required to use E5 / E6 / E7 / E7D / E8 / E8D.

MODEL U files 33mm / #15	ORDER CODE Y900062
• Pack of 6 • ISO 15	
MODEL U files 33mm / #20	ORDER CODE Y900063
• Pack of 6 • ISO 20	
MODEL U files 33mm / #25	ORDER CODE Y900064
• Pack of 6 • ISO 25	
MODEL U files 33mm / #30	ORDER CODE Y900065
• Pack of 6 • ISO 30	
MODEL U files 33mm / #35	ORDER CODE Y900066
• Pack of 6 • ISO 35	



MODEL E30RD ORDER CODE Z217212

• Diamond coated • For posterior teeth (right angled)



MODEL E30LD ORDER CODE Z217213

• Diamond coated • For posterior teeth (left angled)



MODEL E31D ORDER CODE Z217210

• Diamond coated • For anterior and posterior teeth (70°)



MODEL E32D ORDER CODE Z217211

• Diamond coated • For anterior teeth (90°)



MODEL Tip Wrench (CR-10) ORDER CODE Z221076



MODEL E Tip Replacement Wrench ORDER CODE Z217399


Washable in the
thermodisinfector

Autoclavable
up to 135°C

Varios2 / Varios V-Tips

*Varios Tips are compatible with Satelec®.



MODEL V30 ORDER CODE Z217030

*Tip is optional

Each pack of E11, E12, or V30 includes 1 x E Tip replacement wrench.
Replacement wrench is no included when ordering other tips.
Please order the replacement wrench separately in this instance.

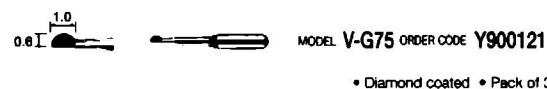
Varios Ultrasonic Scaler Tips

Restorative (For Minimal Intervention)



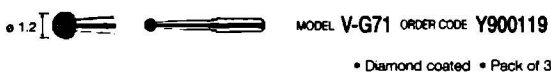
MODEL V-G70 ORDER CODE Y900118

• Diamond coated • Pack of 3



MODEL V-G75 ORDER CODE Y900121

• Diamond coated • Pack of 3



MODEL V-G71 ORDER CODE Y900119

• Diamond coated • Pack of 3



MODEL V-G76 ORDER CODE Y900122

• Diamond coated • Pack of 3



MODEL V-G72 ORDER CODE Y900120

• Diamond coated • Pack of 3

Varios Ultrasonic Scaler Tips

Restorative (For Finishing / Trimming / Polishing)



MODEL V-G77 ORDER CODE Y900165

• Diamond coated • Normal Grade • Pack of 3



MODEL V-G79 ORDER CODE Y900167

• Diamond coated • Super Fine Grade • Pack of 3

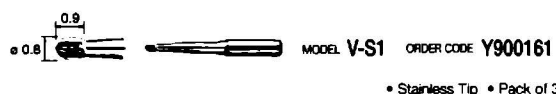


MODEL V-G78 ORDER CODE Y900166

• Diamond coated • Fine Grade • Pack of 3

Varios Ultrasonic Scaler Tips

Restorative (For Caries of Dentin)



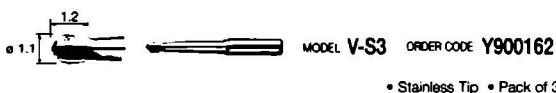
MODEL V-S1 ORDER CODE Y900161

• Stainless Tip • Pack of 3



MODEL V-S33 ORDER CODE Y900163

• Stainless Tip • Pack of 3

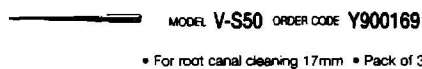


MODEL V-S3 ORDER CODE Y900162

• Stainless Tip • Pack of 3

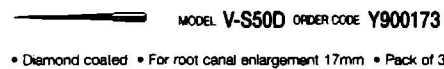
Varios Ultrasonic Scaler Tips

Endodontics



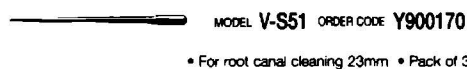
MODEL V-S50 ORDER CODE Y900169

• For root canal cleaning 17mm • Pack of 3



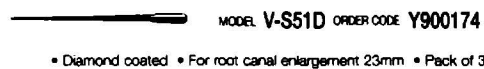
MODEL V-S50D ORDER CODE Y900173

• Diamond coated • For root canal enlargement 17mm • Pack of 3



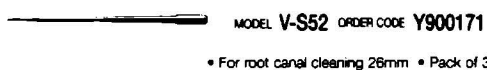
MODEL V-S51 ORDER CODE Y900170

• For root canal cleaning 23mm • Pack of 3



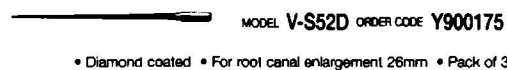
MODEL V-S51D ORDER CODE Y900174

• Diamond coated • For root canal enlargement 23mm • Pack of 3



MODEL V-S52 ORDER CODE Y900171

• For root canal cleaning 26mm • Pack of 3



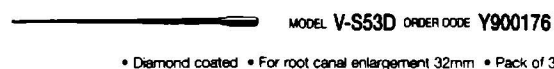
MODEL V-S52D ORDER CODE Y900175

• Diamond coated • For root canal enlargement 26mm • Pack of 3



MODEL V-S53 ORDER CODE Y900172

• For root canal cleaning 32mm • Pack of 3



MODEL V-S53D ORDER CODE Y900176

• Diamond coated • For root canal enlargement 32mm • Pack of 3

Ti-Max S950 Air Scalpers

TITANIUM

- Solid Titanium Body
- 3 level Power Ring
- Frequency of oscillation : 6,200~6,450 Hz
- Includes 3 tips (S1, S2 & S3), Tip Wrench and Tip Cover



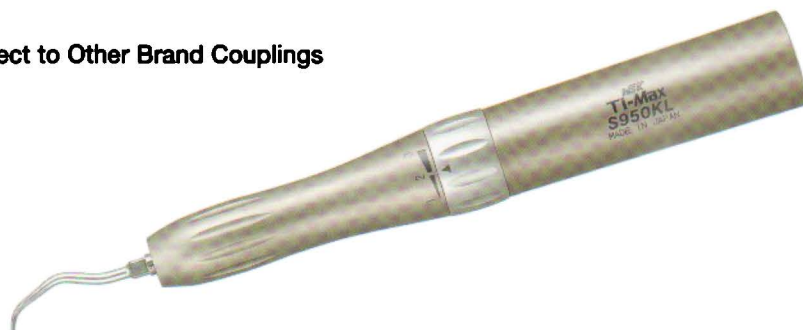
Optic MODEL **S950L** ORDER CODE **T750**

- Circular Optic Illumination
- Weight : 60 g

Non-Optic MODEL **S950** ORDER CODE **T749**

- Weight : 63 g

Connect Direct to Other Brand Couplings



LED KaVo® LED Coupling

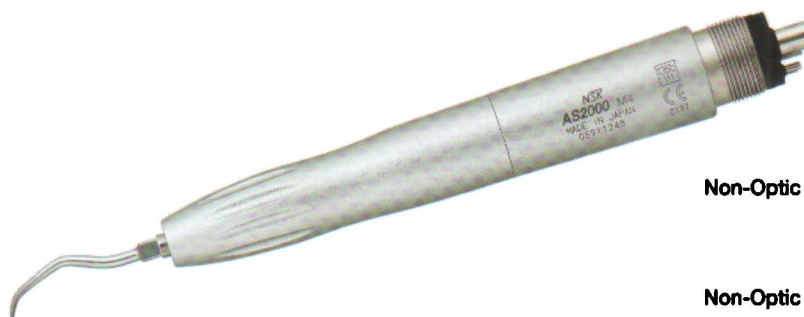
Optic MODEL **S950KL** ORDER CODE **T771**

- Circular Optic Illumination
- Weight : 80 g

■ Coupling are optional

AS2000 Air Scalpers

- Frequency of oscillation : 6,100~6,600 Hz
- Includes 3 tips (S1, S2 & S3), Tip Wrench and Tip Cover



Non-Optic MODEL **AS2000 M4** ORDER CODE **T698**

- For Midwest 4 hole
- Weight : 69 g

Non-Optic MODEL **AS2000 B2/B3** ORDER CODE **T697**

- For Borden 2/3 hole
- Weight : 65 g

Air Scaler Tips for S950 / AS2000

Scaling



MODEL **S1** ORDER CODE **Z252411**
• Universal Type



MODEL **S2** ORDER CODE **Z252413**
• Sickle Type



MODEL **S3** ORDER CODE **Z252412**
• Perio Type

Air Scaler Tips for S950 / AS2000

Perio



MODEL **S10** ORDER CODE **Z252420**
• Universal Type Slim Line



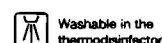
MODEL **S20** ORDER CODE **Z252441**
• Root Planing (Straight tip)



MODEL **S21R** ORDER CODE **Z252442**
• Root Planing (Right curved tip)



MODEL **S21L** ORDER CODE **Z252443**
• Root Planing (Left curved tip)



135°C

15 min

Autoclavable up to 135°C

Prophy-Mate **neo**

AIR POWERED TOOTH POLISHING SYSTEM

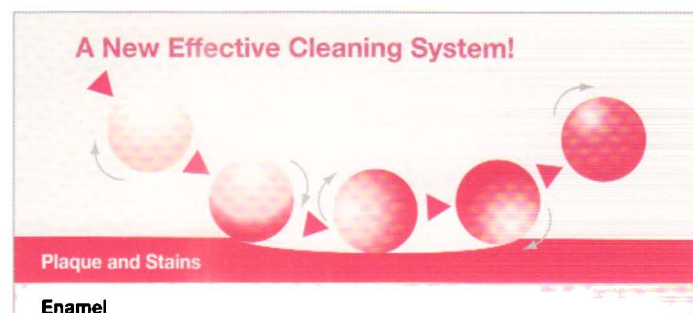
Enhanced Prophy-Mate neo unites form and functionality for easier use. Excellent weight balance and a lightweight, compact powder chamber make Prophy-Mate neo comfortable to hold, while the original NSK handpiece connection swivels 360° even under strong air pressure. Effortless operation shortens time for treatment of plaque and stains. 60° and 80° tips are available.



FLASH **pearl** CLEANING POWDER

Sparkling Results Every Time

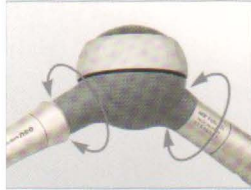
FLASH **pearl**, a cleaning powder for Prophy-Mate neo, is a spherical particulate powder designed to roll smoothly over tooth surfaces and penetrate all corners for rapid cleaning.





Ergo-Comfort Design

Lightweight, compact design and well-considered weight balance enable easy handling for minimised hand and wrist fatigue, helping to ensure thorough treatment.



Smooth, Easy 360° Swivel

Twin joints rotate smoothly 360° degrees for easy operability, responding flexibly to minute fingertip movements with effortless adjustment of the tip angle.



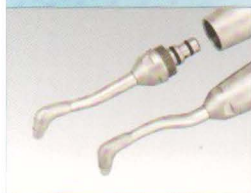
Simple One-touch Connection

The Prophy-Mate neo is designed for a one-touch attachment to NSK couplings and other major coupling brands. The handpiece also can be attached to the powder case with one-touch operation.



Improved Polishing Power

With NSK original twin nozzles, greater polishing power is realized. With powerful jet, cleaning time is greatly shortened thus reduces treatment time.


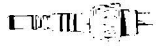







Easy Detachable Nozzles with 60° and 80° tips

Selectable 60° and 80° tips maximise the cleaning ability. 60° tip works especially well for molar area and occluding surface and 80° tip for anterior tooth.



Prophy-Mate neo Complete System

NSK	MODEL PMNG-PTL-P	ORDER CODE Y135029		NSK PTL coupling
KaVo®	MODEL PMNG-KV-P	ORDER CODE Y135030		KaVo® MULTIFLEX coupling
Sirona®	MODEL PMNG-SR-P	ORDER CODE Y135031		Sirona® Quick Coupling
W&H®	MODEL PMNG-WH-P	ORDER CODE Y135032		W&H® Proto Quick®
Bien-Air®	MODEL PMNG-BA-P	ORDER CODE Y135033		Bien-Air® UniFit®
M4	MODEL PMNG-M4-P	ORDER CODE Y135034		Connect direct to the handpiece tubing VIOBEST
B2	MODEL PMNG-B2-P	ORDER CODE Y135035		Connect direct to the handpiece tubing BOPFEN

■ Couplings are optional

Complete System Includes

- Prophy-Mate neo Handpiece with 60° and 80° tips
- Cleaning brush, wire and file
- 5 pcs. x 15 g sachets of FLASH pearl cleaning powder
- Replacement nozzle head
- Powder case cover
- Wrench for Replacing Nozzle

*Do not wash the powder case or the powder case's cap in a thermo-disinfector.



The handpiece can be washed in the thermosinfector



Autoclavable up to 135°C

Spherical granules remove residues from every corner



FLASH pearl



Conventional Sodium Bi-Carbonate powder

FLASH pearl roll smoothly over tooth surfaces



FLASH pearl avoids surface damage



Conventional Bi-Carbonate is aggressive

Prophy-Mate neo Cleaning Powder

MODEL **FLASH pearl** ORDER CODE **Y900693**

- Swiftly packaged in a handy, original box.
- Comes in 100 x 15 gms sachets
- This product is made in France



MODEL **FLASH pearl (Bottle)** ORDER CODE **Y900698**

- 4 bottles packed in a box
- Comes with a measuring cup for your convenience
- Each bottle contains 300 gms
- This product is made in France



ENDO-MATE TC2

CORDLESS ENDODONTIC HANDPIECE
WITH TORQUE CONTROL AND AUTO REVERSE

Smarter and Safer



Advantages

- Slim Head and neck assures higher visibility
- Large LCD panel and access-friendly key
- Lightweight, ergonomic design
- Smart Auto Reverse & Alarm Function
- 5 programs for different file systems
- Last program settings can be memorized
- 90min. quick charge with non-contact type charger



ENDO-MATE TC2 Complete Packs

ENDO-MATE TC2 Complete Set

MODEL ENDO-MATE TC2 (230V) ORDER CODE Y1001027

Contents

- MP-F16R Head • ENDO-MATE TC2 Motor • Battery Charger

ENDO-MATE TC2 Complete MPAS Set

MODEL ENDO-MATE TC2 MPAS (230V) ORDER CODE Y1001047

Contents

- MPAS-F16R Head • ENDO-MATE TC2 Motor • Battery Charger

ENDO-MATE TC2 & ENDO-MATE DT Heads

- Miniature Head • For Ni-Ti files (ø2.35) • Push Button Chuck



- MODEL **MP-F20R** ORDER CODE **Y110044**
- MODEL **MP-F16R** ORDER CODE **Y110096**
- MODEL **MP-F10R** ORDER CODE **Y110048**
- 20:1 / 16:1 Reduction



- MODEL **MPA-F20R** ORDER CODE **Y110045**
- MODEL **MPA-F16R** ORDER CODE **Y110097**
- Connection for Apex locator (for long shank)
- 20:1 / 16:1 Reduction



- MODEL **MPAS-F20R** ORDER CODE **Y110046**
- MODEL **MPAS-F16R** ORDER CODE **Y110098**
- Connection for Apex locator (for short shank)
- 20:1 / 16:1 Reduction

The icons shown beside each of the models indicates the reduction gear ratio of the head. All heads pictured in this brochure are the 20:1 model type.

- White = 20:1 Reduction*
- Gray = 16:1 Reduction
- Navy = 10:1 Reduction

*For ENDO-MATE DT Only



ENDO-MATE TC2 Motor



ENDO-MATE DT Motor & Cord

Apex Locator Capability

MPA and MPAS heads are equipped with built in probe ring which enable to use your Apex locator with the ENDO-MATE TC2 & DT systems. By combining an Apex Locator with NSK ENDO-MATE TC2 & DT, clinicians will be able to perform more accurate root canal preparations. All contra angle heads are autoclavable up to 135°C.

2 types of file holders are available relevant to the shank length of the file selected.

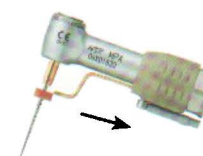
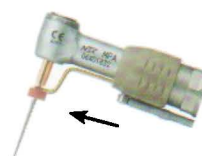


MPA head
For long shank ø2.35



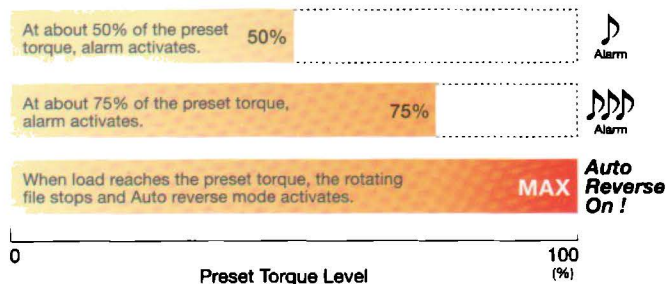
MPAS head
For short shank ø2.35
Shank length : up to 12mm

Attach the Apex Locator Monitor by moving it forward to contact the file. Release by moving away from the file.



Two kinds of alarm sound for safer and efficient treatment

(For ENDO-MATE TC2 Only)



Suitable for use with most major brands of Ni-Ti files

Rotation Speed (min ⁻¹)	Gear Ratio	Torque Level (Ncm)
200 ~ 900	10 : 1	0.2 ~ 2.2
140 ~ 550	16 : 1	0.3 ~ 3.0
100 ~ 450	20 : 1	0.4 ~ 4.0



The heads can be washed in the thermos disinfectant



The heads are autoclavable up to 135°C

ENDO-MATE DT

ENDO MICROMOTOR WITH TORQUE CONTROL AND AUTO REVERSE

Ultra-slim & Compact Handpiece

ENDO-MATE DT is smart enough to memorise exact speed and torque settings for up to 9 Ni-Ti files from all major suppliers. Its auto-reverse features 3 working modes – auto-reverse on, auto-stop, auto-reverse off. The motor reacts when load reaches the preset level of torque. With on-off switch, it offers flexibility of pedal-free operation (optional foot control unit available), while providing convenience of full portability with two-way power supply, either AC or battery driven.



For All Popular Brands of Ni-Ti Files

Up to 9 program settings (speed and torque etc) can be stored in the memory at the touch of a button. To switch between stored programs simply press the program button.

Gear Ratio	Head Speeds min ⁻¹
20:1	100~650
4:1	500~3,200
1:1	2,000 ~13,000

ENDO-MATE DT Complete Sets



ENDO-MATE DT Complete Set

MODEL ENDO-MATE DT (230V) ORDER CODE Y141121

Contents

- Control unit
- Motor and cord
- AC adaptor
- MP-F20R head (20:1)
- Handpiece stand

Specifications

- Power Supply : AC230V 50/60 Hz and Battery pack
- Number of Programs : 9
- Max. Torque : 7 Ncm (when using 20:1 head)
- Charge / Continuous use : 5h / 2h (depending on workload)
- Speed range : 100~13,000 min⁻¹ (With 20:1, 4:1, 1:1 geared heads)
- Dimensions : W92 x D148 x H124 (mm)
- Weight : Unit 456g / Motor handpiece & cord 92g

ENDO-MATE DT Complete MPAS Set

MODEL ENDO-MATE DT MPAS Set (230V) ORDER CODE Y1001161

Contents

- Control unit
- Motor and cord
- AC adaptor
- MPAS-F20R head (20:1)
- Handpiece stand

iPex

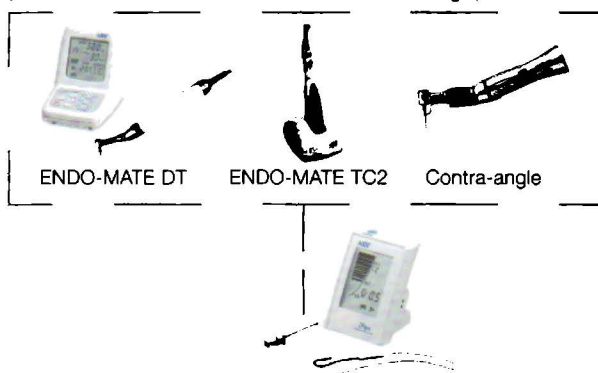
PRECISION APEX LOCATOR

Instant, Accurate Measurements

The new NSK Advanced Digital Apex Locator has been developed to accurately measure the length of canals in all conditions, including dry, wet and where blood is present. iPex guarantees security for canal interventions, and improves patient comfort, without exposure to radiation. The large high contrast LED display provides instant measurements.

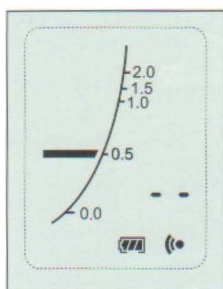
Monitoring the Canal Depth

For integration into Endodontic instruments
(ENDO-MATE DT / ENDO-MATE TC2 / Contra-angle)

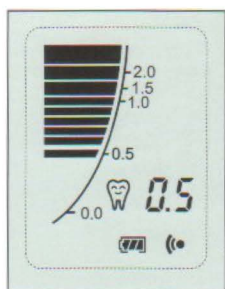


Large Display, Plus Audio Signals for Immediate Monitoring

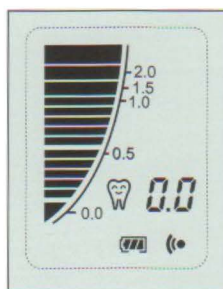
► Ready to start



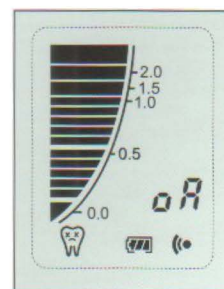
► W Apical zone start



At the apex



► W Over-instrumentation



iPex Complete Set



MODEL **iPex** ORDER CODE **Y141251**

Contents

- Control unit
- Probe
- File clip (3 pcs.)
- Lip hook (3 pcs.)
- Extension cord
- AAA manganese dry batteries (4 pcs.)

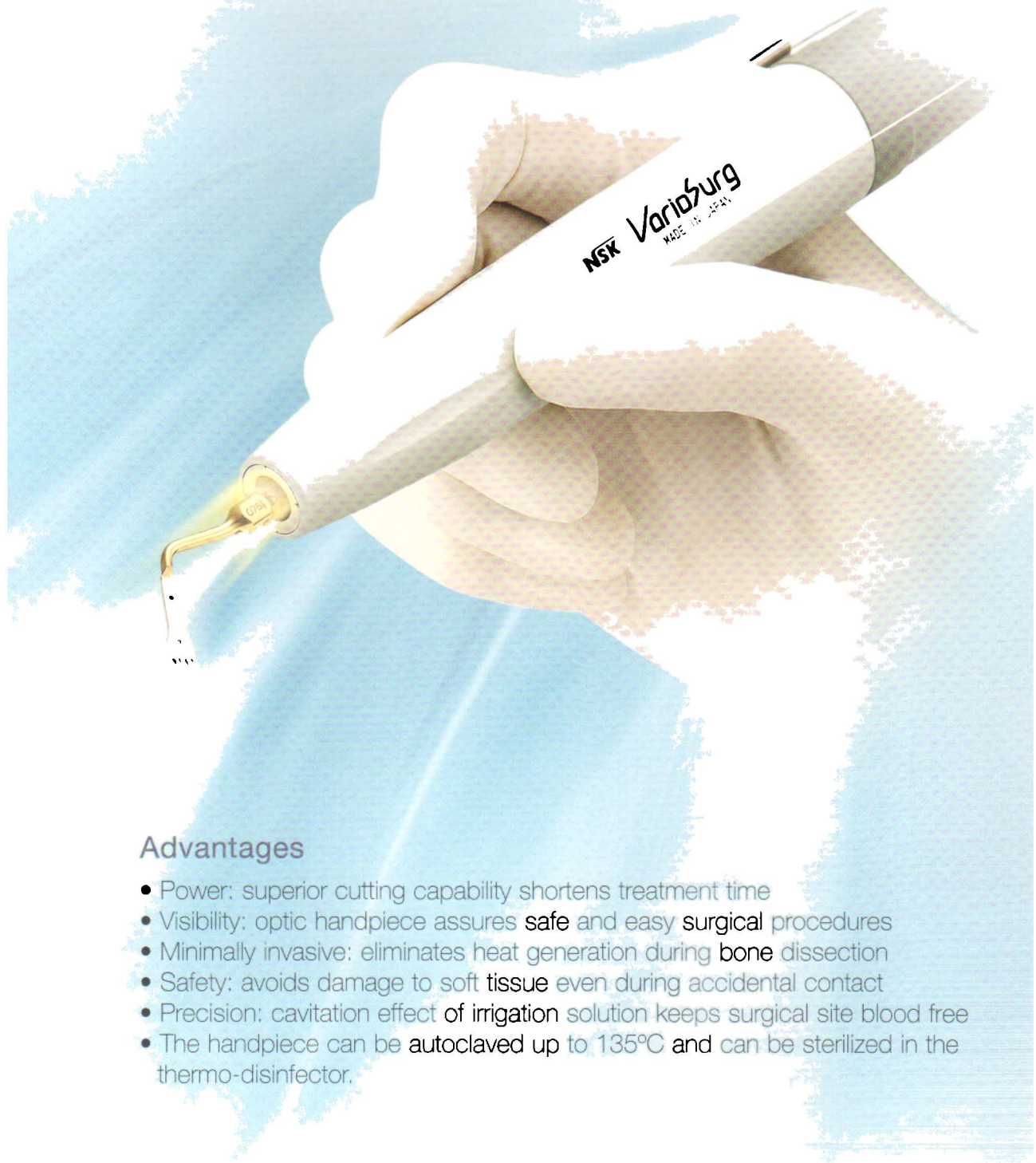
Specifications

- Power Supply : for 1.5V AAA (LR03 or RC3) batteries
- Continuous use : Approx. 50 hours
- Dimensions : W80 x D80 x H95 (mm)
- Weight : Unit 185g

VarioSurg

INNOVATIVE ULTRASONIC SURGERY
A POWERFUL ULTRASONIC SURGICAL SYSTEM WITH ILLUMINATION

Powerful and Reliable



Advantages

- Power: superior cutting capability shortens treatment time
- Visibility: optic handpiece assures safe and easy surgical procedures
- Minimally invasive: eliminates heat generation during bone dissection
- Safety: avoids damage to soft tissue even during accidental contact
- Precision: cavitation effect of irrigation solution keeps surgical site blood free
- The handpiece can be autoclaved up to 135°C and can be sterilized in the thermo-disinfector.

Applications

- Bone surgery
- Sinus lifts
- Periodontal surgery
- Endodontic surgery

VarioSurg Handpieces Optic / Non-Optic

Optic Handpiece for Sure, Safe Surgical Performance

The VarioSurg handpiece employs more powerful NSK cellular optics to improve visibility of the target site. Surgical procedures are easier and stress free to help you provide more precise and efficient treatment. The VarioSurg handpiece can be autoclaved repeatedly up to 135°C and sterilized in the thermo-disinfector.



Optic MODEL VA-SG-HPSC ORDER CODE Y141420



Non-Optic MODEL VA-SGN-HPSC ORDER CODE E377

VarioSurg Complete Sets Optic / Non-Optic



Optic

VarioSurg Complete Set with Optic Handpiece

MODEL VSRG 230V1 (230V) ORDER CODE Y141396

Contents

- Control Unit • Optic Handpiece with 2m cord
- FC-51 Foot Control (IPX8 certified) • Sterilization Cassette
- Handpiece Stand • Irrigation tube and other accessories
- Basic-S Kit (SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

Non-Optic

VarioSurg Complete Set with Non-Optic Handpiece

MODEL VSRG 230V3 (230V) ORDER CODE Y1001196

Contents

- Control Unit • Non-Optic Handpiece with 2m cord
- FC-51 Foot Control (IPX8 certified) • Sterilization Cassette
- Handpiece Stand • Irrigation tube and other accessories
- Basic-S Kit (SG1, SG3, SG5, SG6D, SG7D, SG11 and Tip holder)

Specifications

Control Unit

- Frequency : 28-32 kHz
- Power Supply : AC230V 50/60 Hz
- Irrigation Flow Rate : 10-85 mL / min
- Programs : SURG x 5, ENDO x 2, PERIO x 2
- Dimensions : W268 x D230 x H103 (mm)

Foot Control (IPX8 certified)

- Foot Control Functions : Water Supply On / Off, Ultrasonic On / Off, Program Control Reverse / Forward

Transport Case (Optional)

The NSK transport case can accommodate all VarioSurg components.

MODEL Transport Case ORDER CODE 30000119



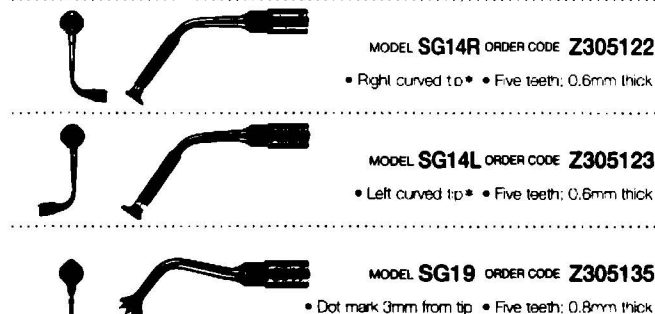
Washable in the thermosinfectant



Autoclavable up to 135°C

VarioSurg Ultrasonic Surgery Tips (TiN coating)

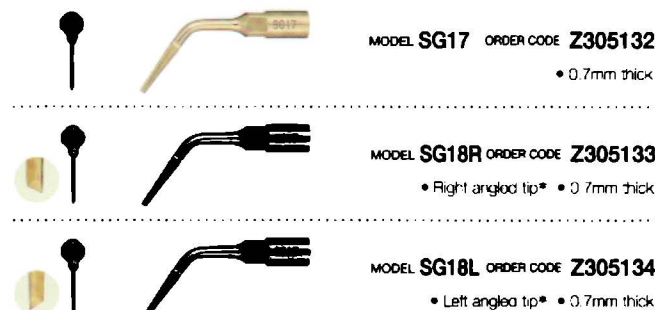
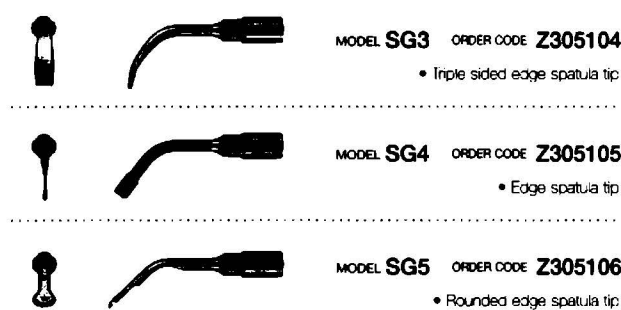
Bone Surgery



* The direction of the tip's curve is defined by the tip's anterior view.

VarioSurg Ultrasonic Surgery Tips (TiN coating) Scraper

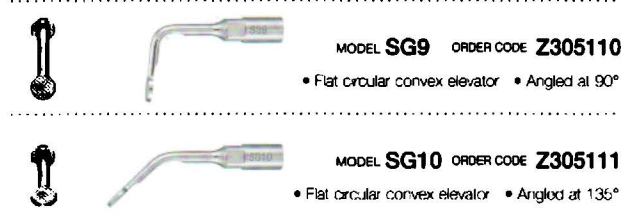
VarioSurg Ultrasonic Surgery Tips (TiN coating) Extraction



* The direction of the tip's angle is defined by the tip's anterior view.

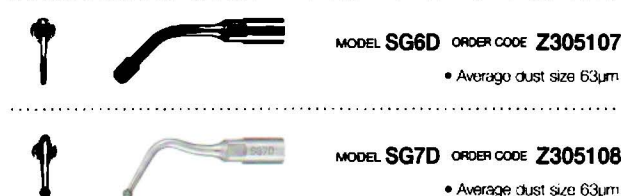
VarioSurg Ultrasonic Surgery Tips (TiN coating)

Sinus Membrane Tool



VarioSurg Ultrasonic Surgery Tips (Diamond coating) Sinus Lift

VarioSurg Ultrasonic Surgery Tips (Diamond coating) Implant Preparation





MODEL **G1-S** ORDER CODE **Z305113**



MODEL **P20-S** ORDER CODE **Z305114**

• Straight tip



MODEL **P25R-S** ORDER CODE **Z305115**

• Right curved tip*



MODEL **P25L-S** ORDER CODE **Z305116**

• Left curved tip*



MODEL **E30RD-S** ORDER CODE **Z305118**

• For posterior teeth (right angled)



MODEL **E30LD-S** ORDER CODE **Z305119**

• For posterior teeth (left angled)



MODEL **E31D-S** ORDER CODE **Z305120**

• For anterior and posterior teeth (70°)



MODEL **E32D-S** ORDER CODE **Z305121**

• For anterior teeth (90°)



MODEL **V10-S** ORDER CODE **Z305117**

*Plastic Tip is not included



MODEL **V-P10** ORDER CODE **Y900184**

*Tip wrench is not included • Pack of 3



MODEL **Basic-S Kit** ORDER CODE **Y900687**

Contents

- SG1, SG3, SG5, SG6D, SG7D, SG11
- Tip holder



MODEL **Sinus Lift Kit** ORDER CODE **Y900689**

Contents

- SG1, SG3, SG6D, SG9, SG10, SG11
- Tip holder



Implant
MODEL **Preparation Kit** ORDER CODE **Y900774**

Contents

- SG15A, SG15B, SG16A, SG16B
- Tip holder



MODEL **Bone Cut Kit** ORDER CODE **Y900688**

Contents

- SG1, SG2R, SG4, SG2L, SG6D
- Tip holder



MODEL **Endo-S Kit** ORDER CODE **Y900691**

Contents

- G1-S, E30RD-S, E30LD-S, E31D-S, E32D-S
- Tip holder



Surgic XT Plus

HIGH PERFORMANCE BRUSHLESS SURGICAL MICROMOTOR SYSTEM
WITH ACCURATE TORQUE CONTROL

Intelligent & Intuitive



Advantages

- Wide motor speed range of 200 – 40,000 min^{-1}
(10–2,000 min^{-1} with 20:1)
- Powerful torque : 5 – 50 Nm
- High power : 210 W
- Lightweight compact body reduces hand fatigue and improves balance
- Low noise, low vibration with minimal heat generation
- Excellent durability
- High torque accuracy

Surgic XT Plus Optic



X-SG20L Optic Handpiece

Surgic XT Plus Optic Complete Set with X-SG20L Optic Handpiece

MODEL **Surgic XT Plus OPT (230V)** ORDER CODE **Y1001204**

Contents

- Control Unit with Advanced Handpiece Calibration (AHC)
- Optic Micromotor with 2 m Cord
- FC-51 Foot Control (IPX8 certified)
- Ti-Max X-SG20L Optic Handpiece (20:1 Reduction)
- Irrigation tube (5 pcs.) and other accessories

Specifications

Control Unit with AHC

- Max Output/Max Torque : 210 W / 50 Nm
- Power Supply : AC230V 50/60 Hz
- Max. Pump Output : 75mL/min
- Programs : 5 Programs
- Dimensions : W268 x D230 x H103 (mm)

Micromotor

- Motor Speed : 200-40,000 min⁻¹
- Light Power : 25,000 LLX

Foot Control

- Foot Control Functions : Speed Control, Coolant Control, Forward / Reverse, Program Control
- Speed Control : Variable

Surgic XT Plus Non-Optic



S-Max SG20 Handpiece

Surgic XT Plus Non-Optic Complete Set with S-Max SG20 Handpiece

MODEL **Surgic XT Plus NON-OPT (230V)** ORDER CODE **Y1001207**

Contents

- Control Unit with Advanced Handpiece Calibration (AHC)
- Non-Optic Micromotor with 2 m Cord
- FC-51 Foot Control (IPX8 certified)
- S-Max SG20 Handpiece (20:1 Reduction)
- Irrigation tube (5 pcs.) and other accessories

Specifications

Control Unit with AHC

- Max Output/Max Torque : 210 W / 50 Nm
- Power Supply : AC230V 50/60 Hz
- Max. Pump Output : 75mL/min
- Programs : 8 Programs
- Dimensions : W268 x D230 x H103 (mm)

Micromotor

- Motor Speed : 200-40,000 min⁻¹

Foot Control

- Foot Control Functions : Speed Control, Coolant Control, Forward / Reverse, Program Control
- Speed Control : Variable

Transport Case (Optional)

The NSK transport case can accommodate all Surgic XT Plus components as well as the optional sterilization cassette.



MODEL **Transport Case**

ORDER CODE **30000119**

*The contents shown in the transport case above are sold separately.

Replacement Parts



MODEL **Surgic XT Plus Micromotor** ORDER CODE **E295050**



MODEL **Surgic XT Plus Micromotor** ORDER CODE **E290050**



MODEL **Surgic XT Plus Micromotor Cord** ORDER CODE **E295051**

• 2m



MODEL **Surgic XT Plus Micromotor Cord** ORDER CODE **E290051**

• 2m



MODEL **Irrigation Tube**

ORDER CODE **Y900113**

• Pack of 5

Implant Handpieces Optic / Non-Optic • Solid Titanium Body • Cellular Glass Optics

Ti-Max X



Optic MODEL **X-SG20L** ORDER CODE **C1003**

- 20:1 Reduction** • Titanium Body with Scratch Resistant DURACOAT
 • Cellular Glass Optics • Push Button Chuck • Sealed Head Design
 • External and internal cooling (Kirschner and Meyer)
 • Max. Speed : 2,000 min⁻¹

Ti-Max X /



Optic MODEL **X-SG93L** ORDER CODE **C1004**

Non-Optic MODEL **X-SG93** ORDER CODE **C1007**

- 1:3 Increasing** • Titanium Body with Scratch Resistant DURACOAT
 • Cellular Glass Optics (X-SG93L) • Clean Head System
 • Push Button Chuck • External cooling • Max. Speed : 120,000 min⁻¹

Ti-Max X



Optic MODEL **X-SG25L** ORDER CODE **C1011**

- 1:1 Direct Drive** • Titanium Body with Scratch Resistant DURACOAT
 • Clean Head System • Push Button Chuck
 • External cooling • Max. Speed : 40,000 min⁻¹

Ti-Max X

Straight Handpiece



Optic MODEL **X-SG65L** ORDER CODE **H1009**

- 1:1 Direct Drive** • Titanium Body with Scratch Resistant DURACOAT
 • Cellular Glass Optics • Clean Head System
 • For HP burs (ø2.35) • For CA burs (ø2.35)*
 • Need to insert the supplied bur stopper
 • External cooling • Max Speed: 40,000 min⁻¹

Implant Handpieces Non-Optic

SGM Series



- 16 : 1** MODEL **SGM-ER16i** ORDER CODE **Y110126**
20 : 1 MODEL **SGM-ER20i** ORDER CODE **Y110127**
32 : 1 MODEL **SGM-ER32i** ORDER CODE **Y110128**
64 : 1 MODEL **SGM-ER64i** ORDER CODE **Y110129**
256 : 1 MODEL **SGM-ER256i** ORDER CODE **Y110130**

- 16:1 / Max Speed: 1,200 min⁻¹ • 20:1 / Max Speed: 1,000 min⁻¹ • 32:1 / Max Speed: 600 min⁻¹
 • 64:1 / Max Speed: 300 min⁻¹ • 256:1 / Max Speed: 70 min⁻¹

- with Wrench for handpiece attachment
 Optional Accessories : Internal Spray Nozzle, Irrigation Tube Clamp, Y-Connector

SGMS-ER20i

with Depth Indicator



20 : 1 MODEL **SGMS-ER20i** ORDER CODE **Y110147**

- Max Speed: 1,000 min⁻¹

- with two Depth Indicators, Wrench for handpiece attachment, Ruler
 Optional Accessories : Internal Spray Nozzle, Irrigation Tube Clamp, Y-Connector

S-Max SG20



MODEL **SG20** ORDER CODE **C1010**

- 20:1 Reduction** • Stainless Steel Body • Push Button Chuck
 • External and internal cooling (Kirschner and Meyer)
 • Sealed Head Design • Max. Speed : 2,000 min⁻¹

SGQ-ER20h



MODEL **SGQ-ER20h** ORDER CODE **Y110132**

- 20:1 Reduction** • Max Speed: 2,000 min⁻¹

- with Wrench for handpiece attachment, and Surgical Head Spray Nozzle
 Optional Accessories : Internal Spray Nozzle, Internal Spray Nozzle Clamp, Y-Connector



Washable in the
thermoisinfector



Autoclavable
up to 135°C

Micro Surgery Handpieces Non-Optic

Straight Handpieces



MODEL **SGS-ES** ORDER CODE **H264**

- 1:1 Direct Drive** • For surgical burs (ø2.35)
• Twist chuck • Max Speed: 40,000 min⁻¹



MODEL **SGS-E2S** ORDER CODE **H266**

- 1:2 Increasing** • For surgical burs (ø2.35)
• Twist chuck • Max Speed: 80,000 min⁻¹

20° Angle Handpieces



MODEL **SGA-ES** ORDER CODE **H263**

- 1:1 Direct Drive** • For surgical burs (ø2.35)
• Twist chuck • Max Speed: 40,000 min⁻¹



MODEL **SGA-E2S** ORDER CODE **H265**

- 1:2 Increasing** • For surgical burs (ø2.35)
• Twist chuck • Max Speed: 80,000 min⁻¹

Micro Saw Handpieces Non-Optic

1.8mm Reciprocating



MODEL **SGR2-E** ORDER CODE **SH162**

- 3:1 Reduction** • With External Spray Nozzle
• Max : 12,600 min⁻¹

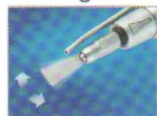
17° Oscillating



MODEL **SGO2-E** ORDER CODE **SH164**

- 3:1 Reduction** • With External Spray Nozzle
• Max : 12,600 min⁻¹

3° Sagittal

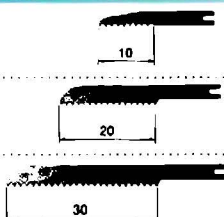


MODEL **SGT2-E** ORDER CODE **SH163**

- 3:1 Reduction** • With External Spray Nozzle
• Max : 12,600 min⁻¹

* Max speed allowance at blades
■ Blades are sold separately

SGR2-E Blades for Reciprocating



MODEL **SGR-1** ORDER CODE **Y900072**

- Blade thickness 0.35 mm • Pack of 10 blades

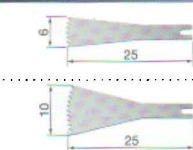
MODEL **SGR-2** ORDER CODE **Y900073**

- Blade thickness 0.35 mm • Pack of 10 blades

MODEL **SGR-3** ORDER CODE **Y900074**

- Blade thickness 0.35 mm • Pack of 10 blades

SGT2-E Blades for Sagittal



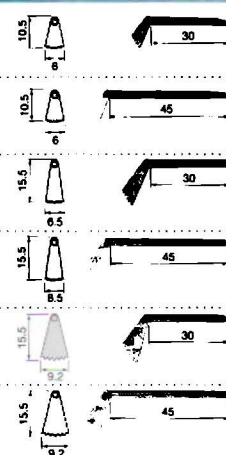
MODEL **SGT-1** ORDER CODE **Y900075**

- Blade thickness 0.35 mm • Pack of 10 blades

MODEL **SGT-2** ORDER CODE **Y900076**

- Blade thickness 0.35 mm • Pack of 10 blades

SGO2-E Blades for Oscillating



MODEL **SGO-1** ORDER CODE **H174034**

- Blade thickness 0.3 mm • Single blade

MODEL **SGO-2** ORDER CODE **H174044**

- Blade thickness 0.3 mm • Single blade

MODEL **SGO-3** ORDER CODE **H174031**

- Blade thickness 0.3 mm • Single blade

MODEL **SGO-4** ORDER CODE **H174041**

- Blade thickness 0.3 mm • Single blade

MODEL **SGO-5** ORDER CODE **H174032**

- Blade thickness 0.35 mm • Single blade

MODEL **SGO-6** ORDER CODE **H174042**

- Blade thickness 0.35 mm • Single blade



Washable in the
thermosanitizer



135°C
Autoclavable
up to 135°C

ULTIMATE XL Series

BRUSHLESS MICROMOTOR

Experience Unprecedented Smoothness and Power

The world's leading laboratory micromotor has just got better. The ULTIMATE Series have evolved to run more smoothly and powerfully. 180° vector control system secures more efficient and stress free operation. The handpiece has a very innovative body shape being fully ergonomic and highly functional, which considerably reduces hand fatigue and makes it easier to work with on most delicate pieces and for an extended period of time. Experience the next-generation performance the ULTIMATE XL has to offer.



Features

- Ripple-free smooth rotation with 180° vector control system
- Powerful and stable torque across the entire speed range
- Easy-to-hold handpiece design ensures precision
- Lightweight compact body reduces hand fatigue and improves balance
- Unique dust-proof mechanism prevents contamination therefore achieving higher durability
- Minimal vibration, and noise from hermetically shielded micromotor unit
- Approximately 30% increased chuck strength enables you to work on a wider variety of materials

ULTIMATE XL Systems



Torque MODEL **UMXL-GT (230V)** ORDER CODE **Y141469**

Compact MODEL **UMXL-GC (230V)** ORDER CODE **Y141470**

Contents

- Control unit • Micromotor Handpiece • Foot Control • Handpiece Stand

Specifications

- Power Supply : AC 230V 50/60 Hz
- Weight : 2.8 kg
- Dimensions : W167 x D247 x H77 (mm)
- Max Torque (Torque Motor) : 8.7 Ncm
- Max Torque (Compact Motor) : 6.0 Ncm

ULTIMATE XL-D Systems



Torque MODEL **UMXL-DT (230V)** ORDER CODE **Y141504**

Compact MODEL **UMXL-DC (230V)** ORDER CODE **Y141505**

Contents

- Control unit • Micromotor Handpiece • Foot Control • Handpiece Stand

Specifications

- Power Supply : AC 230V 50/60 Hz
- Weight : 3.3 kg
- Dimensions : W81 x D270 x H230 (mm)
- Max Torque (Torque Motor) : 8.7 Ncm
- Max Torque (Compact Motor) : 6.0 Ncm

ULTIMATE XL-K Systems



Torque MODEL **UMXL-KT (230V)** ORDER CODE **Y141495**

Compact MODEL **UMXL-KC (230V)** ORDER CODE **Y141496**

Contents

- Control unit • Micromotor Handpiece • Handpiece Stand

Specifications

- Power Supply : AC 230V 50/60 Hz
- Weight : 3.2 kg
- Dimensions : W90 x D270 x H230 (mm)
- Max Torque (Torque Motor) : 8.7 Ncm
- Max Torque (Compact Motor) : 6.0 Ncm

E-type Micromotor & Cord

- Speed : 1,000~50,000 min⁻¹
- Max. Torque : 6.0 Ncm

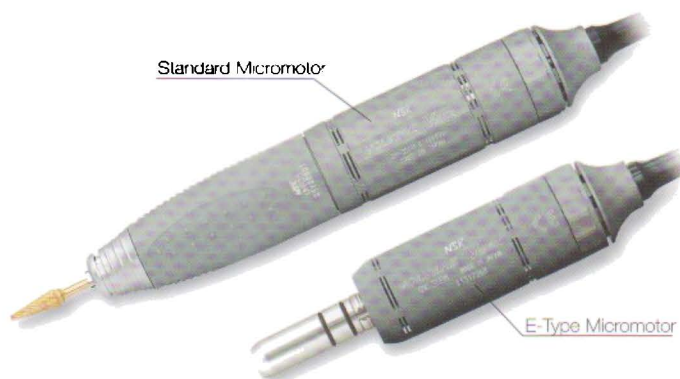


MODEL **UMXL-EM** ORDER CODE **E342**

- Dimensions : L118 x ø27 (mm) • Weight : 129 g (Cord not included) • Cord Length : 1.2 m

VOLVERE Vmax CORELESS MOTOR

Vmax offers unparalleled performance, controllability and durability. The stylish control unit can be placed either vertically or horizontally, or with an optional free-arm stand in a space-critical workplace. EMC (Electromagnetic Compatibility)-compliant coreless motor delivers excellent under-load speed stability, together with higher power efficiency and minimal bow and flutter.



VOLVERE Vmax Complete Packs

Standard MODEL Vmax35RV Pack (230V) ORDER CODE Y140868

E-Type MODEL Vmax35VR-E Pack (230V) ORDER CODE Y140899
includes V4-E handpiece

Contents

- Control unit • Micromotor Handpiece • Foot control • Handpiece Stand

Specifications

- Power Supply AC 230V 50/60 Hz
- Dimensions W95 x D190 x H180 (mm)
- Weight 2.0 kg
- Max Torque 4.1 N cm

MIO CORELESS MOTOR

MIO delivers unmatched cost-performance ratio to the budget-conscious. With a speed range of 3,000~35,000 min^{-1} and powerful torque throughout the entire range, MIO inherits NSK's high-end micromotor technology.



MIO Complete Packs

Standard MODEL MIO MR 230 (230V) ORDER CODE Y140804

E-Type MODEL MIO E 230 (230V) ORDER CODE Y140805
Without Handpiece

Contents

- Control unit • Micromotor Handpiece • Foot control • Handpiece Stand

Specifications

Standard Micromotor	E-Type Micromotor
• Speed : 3,000~35,000 min^{-1}	• Speed : 3,000~35,000 min^{-1}
• Dimensions : L143 x \varnothing 24 (mm)	• Dimensions : L177.2 x \varnothing 24.5 (mm)
• Weight : 191 g (without cord)	• Weight : 104 g (without cord)
• Max Torque : 3.7 N cm	

PRESTO AQUA LUX **LUX** Optic **LED**

LUBE FREE AIR TURBINE HANDPIECE WITH
LED AND WATER COOLANT SPRAY

PRESTO AQUA LUX Complete Set

MODEL **PRESTO AQUA LUX (230V)** ORDER CODE **Y1101151**

Contents

- PRESTO AQUA LUX Control unit
- PRESTO AQUA LUX handpiece
- PR-AQL Hose
- Foot control (AFC-40)
- Secondary hose for PRESTO
- Handpiece stand
- PRESTO AQUA LUX Cord (230V)
- AC Adaptor

Specifications

- 320,000 min⁻¹
- Coolant water spray
- Bottle/tap water switching function
- Special dust-proof mechanism
- Lubrication free

Replacement Cartridge



MODEL **PR-AQL03** ORDER CODE **T1002250** • PRESTO AQUA LUX Cartridge



PRESTO AQUA II

LUBE FREE AIR TURBINE HANDPIECE WITH
WATER SPRAY

PRESTO AQUA II Complete Set

MODEL **PRESTO AQUA II** ORDER CODE **Y150023**

Contents

- PRESTO AQUA II unit
- PRESTO AQUA handpiece
- QD-J B3 coupling
- Hose for PRESTO AQUA II
- Foot control (AFC-40)
- Secondary hose for PRESTO

Specifications

- 320,000 min⁻¹
- Coolant water spray
- Bottle/tap water switching function
- Special dust-proof mechanism
- Lubrication free

Replacement Cartridge



MODEL **PR-AQ03** ORDER CODE **T816016** • PRESTO AQUA Cartridge



PRESTO II LUBE FREE AIR TURBINE HANDPIECE

PRESTO II Complete Set

MODEL **PRESTO II** ORDER CODE **Y150022**

Contents

- PRESTO II unit
- PRESTO handpiece
- Handpiece stand
- Hose for PRESTO
- Foot control (AFC-40)
- Secondary hose for PRESTO

Specifications

- 320,000 min⁻¹
- Lubrication free
- Special dust-proof mechanism



Turbine Adaptor TA50

TA50 air turbine adaptor allows you to quickly switch power source between air turbine handpiece and electric micromotor. Both handpieces are equally controllable with a single foot control or knee control.



MODEL **TA50** ORDER CODE **U375**

- Turbine adaptor
- W75 x D100 x H30 (mm)

Replacement Cartridge



MODEL **PR-03** ORDER CODE **T815016** • PRESTO Cartridge

Care3 Plus

AUTOMATIC HANDPIECE CLEANING & LUBRICATION SYSTEM

Quick and Thorough Maintenance

Correct frequent maintenance of every handpiece is the key to handpiece performance and durability. NSK has designed Care3 Plus to automatically and correctly process all handpieces in under 2 minutes. Both high speed and low speed handpieces can be processed during the same cycle. Using Care3 Plus as part of your daily maintenance routine ensures prolonged life of your valuable handpieces.



Features

- A fail safe maintenance solution
- Filtered air for handpiece rotation
- Disposable mist filtration system
- Solution level indicator
- Easily cleanable
- Air activation to flush out all residual solution

Refill Maintenance Oil

MODEL Maintenance Oil

ORDER CODE Z016117

- 1 Litre



Care3 Plus Complete Packs

Single Rotation port + Dual Standard ports

MODEL Care3 Plus C1 Type (230V)

ORDER CODE Y141204



Dual Rotation ports + Single Standard port

MODEL Care3 Plus C2 Type (230V)

ORDER CODE Y141205



Contents • Care3 Plus unit • Power cord with L-shaped plug
• Maintenance oil (1 Litre) • Oil replenish funnel with filter
• Mist filter set • Oil absorber sheet • Air tube • Air filter

Care3 Plus Adaptors

MODEL E-Type Adaptor* ORDER CODE Z280035

MODEL PTL Adaptor ORDER CODE Z257010

MODEL B2/M4 Adaptor ORDER CODE T904

MODEL KV Adaptor ORDER CODE Z257020

MODEL SR Adaptor ORDER CODE Z257023

MODEL WH Adaptor ORDER CODE Z257021

MODEL BA Adaptor* ORDER CODE Z280022

MODEL F-Type Adaptor* ORDER CODE Z280042

- For All Brands E-Type* & E-Type LUX Attachments
- For NSK High Speed Handpieces for PTL-CL-4HY-T Coupling
- For Borden 2 hole High Speed Handpieces
- For KaVo® High Speed Handpieces for MULTIFLEX LUX® Coupling
- For Sirona® High Speed Handpieces for Quick Coupling
- For W&H® High Speed Handpieces for Roto Quick® Coupling
- For Bien-Air® High Speed Handpieces for Unifix® Coupling
- For ENDO-MATE DT, TC2 / TASKAL Wizard Heads

* For Care3 Plus only. Not applicable with Care3.

• Check with the dealer for the adaptors to mount other manufactures' handpieces

• E-Type: Conforms to ISO3964

PANA SPRAY Plus

PANA SPRAY Plus is a specially formulated, highly effective general handpiece and air motor lubricant. Frequent application of PANA SPRAY Plus will assure handpiece and air motor performance and durability. Apply PANA SPRAY Plus every time before autoclaving any handpiece or air motor.



PANA SPRAY Plus Package

MODEL **Pana Spray Plus Package** ORDER CODE **Y900630**

- PANA SPRAY Plus pack of 6

MODEL **Pana Spray Plus** ORDER CODE **Z182100**

- For High & Low speed handpieces and air motors
- 480 ml • Alcohol-contained lubricant



PANA SPRAY Plus Nozzles



MODEL **Phatelus Spray Nozzle** ORDER CODE **P183090**

- For High speed attachments and air motors when attach to Phatelus and Mach Couplings



MODEL **KV Nozzle**

ORDER CODE **Z090051**

- For Kavo® MultiFlex® LUX



MODEL **SR Nozzle**

ORDER CODE **Z090052**

- For Sirona® Quick Coupling



MODEL **WH Nozzle**

ORDER CODE **Z090054**

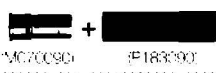
- For W&H® Roto Quick



MODEL **BA Nozzle**

ORDER CODE **Z090053**

- For Bion Air® Unifix®



MODEL **Phatelus Contra Spray Nozzle** ORDER CODE **M070090**

- For Phatelus an motor heads
- Used when attached on the top of Phatelus Spray Nozzle



MODEL **E-Type Spray Nozzle**

ORDER CODE **Z019090**

- For E-Type* attachments



MODEL **F-Type Spray Nozzle**

ORDER CODE **Z256090**

- For FINOX MATE TC2 / DI & TASKAL Wizard heads

*E-Type: Conformance to ISO3964.

Multi Gauge / Single Gauge

Measures handpiece tubing pressure. This includes drive air and water pressures. Where applicable it also measures exhaust air and coolant air. Midwest 4 hole and Borden 2/3 hole fittings are available.



MODEL **MG-4H** ORDER CODE **Z109400**

- For Midwest 4 hole & LUX Coupling

MODEL **MG-2/3H** ORDER CODE **Z109400**

- For Borden 2/3 hole



MODEL **SG-4H** ORDER CODE **Z327001**

- For Midwest 4 hole & LUX Coupling

MODEL **SG-2/3H** ORDER CODE **Z327002**

- For Borden 2/3 hole



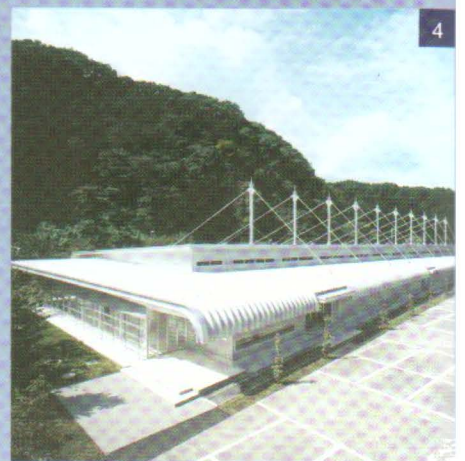
the company



1. NSK's headquarters and technical centre, built in 2001.



2. NSK's manufacturing division offers precision production and the highest quality procedures.



3. CNC Processing Machine - NSK State Of The Art computer-controlled equipment manufactures precision parts 24 hours a day.
4. A new factory (CNC factory) has been established alongside the head office.

Our new NSK Headquarters

NSK's newly new facility established a new environment for research and produce outstanding products. Integrating the R&D Division, the Manufacturing Division and the Sales & Marketing Division in the one place, a noteworthy feature of NSK is that the company develops and manufactures NSK products in-house. The R&D Division has highly specialized people with the skills necessary to design and develop intricate precision instruments and electronic circuitry. This makes it possible for NSK to quickly respond to market demands, while still maintaining rigorous discipline of high quality control.

Product safety & reliability

Because NSK is a recognised medical equipment manufacturer, priority on product safety and reliability is a high criteria. In today's modern world of technology, it is a possible danger to accidentally operate or affect devices by electromagnetic waves transmitted from outside electronic devices. In response to this possible problem, NSK has introduced a special electromagnetic wave measuring facility. All products developed by NSK are designed to minimize the influence of electromagnetic wave interference.

NSK attains the European EMC* Standard.
*Electromagnetic Compatibility

NSK United Kingdom Ltd
(London, UK)

NSK Europe GmbH
(Frankfurt, Germany)

● **NSK Rus & CIS**
(Moscow, Russia)

NSK France SAS
(Paris, France)

● **NSK Middle East**
(Dubai, UAE)

NSK Dental Spain SA
(Madrid, Spain)

NSK Service Co, Ltd
(Seoul, Korea)

● **NSK Nakanishi Inc.**
(Head Office / Factory)

● **NSK Shanghai Co, Ltd**
(Shanghai, China)

● **NSK Asia**
(Singapore)

NSK Oceania Pty Ltd
(Sydney, Australia)

● **NSK Oceania Ltd**
(Auckland, New Zealand)

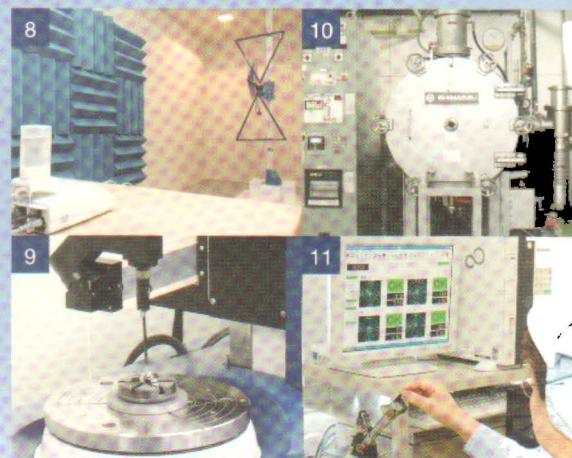
NSK America Corp
(Chicago, USA)



5. Wastewater from the factory, thoroughly cleaned by a pump, is passed through a carp pond and released into the river.

6. Filtration Plant - Waste production oil is 97% recycled after being purified via special filtration equipment.

7. NO Lathe Process - Even during computer-controlled production, the automated process is monitored by a skilled operator to ensure the highest quality of micro precision products.



8. Electromagnetic wave measuring facility - Measuring electromagnetic waves radiated from products.

9. High-precision roundness measuring equipment.

10. Vacuum Heat Treatment Furnace.

11. Balancing room.

Managing strict quality control while pursuing competitive productivity

NSK believes that quality is created during the manufacturing process. NSK realizes quality assurance on a company-wide basis by improving the quality skills of our people and assuring production equipment capability. NSK has installed state-of-the-art computer-controlled equipment in every process and has itself manufactured more than 13,000 tools used to manufacture NSK components.

The NSK Quality Assurance Program revolves around a system of stringent checks encompassing all processes from parts manufacture to assembly. NSK has installed NSK-original inspection equipment designed to detect the most minute discrepancies in the order of microns. Additionally, NSK people diligently monitor numerous check points that can only be verified by humans. Carrying out a final test operated prior to shipping.



NSK and the environment

NSK is particularly aware of the environment. The company Headquarters is located in a rural region. To safeguard our natural environment, NSK utilises the most effective methods to conform to environment protection requirements. NSK acquired ISO14001 in 1996. Environmental friendly practices and eco-friendly production is a particular point of emphasis for NSK.

Operation and Daily Maintenance Guide

NSK High Speed Air Turbine

INSTALLATION



Air Pressure:

DO NOT exceed $2.5\text{kg/cm}^2 = 2.5\text{bar} \approx 0.25\text{MPa}$ (Coupling Type)

DO NOT exceed $2.2\text{kg/cm}^2 = 2.2\text{bar} \approx 0.22\text{MPa}$ (B2/M4 Direct Type)



May be different from other brand products



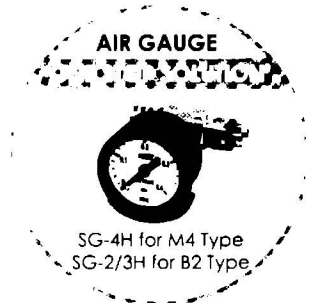
Remove moisture in the air

- Always drain water from the air compressor.

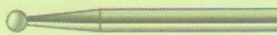



Remove dust in the air


- Always use an air filter in the air hose.



OPERATION

 Standard Shank
for Torque/Standard head

 Short Shank
for Miniature head

 **Insert the bur all the way into the chuck until it stops.**



Use a **FRESH BUR**. Do not use a bent, worn or damaged bur.



For wrench type chuck, do not fasten the knob too tightly.



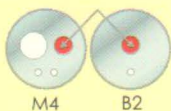
Do not overload. Observe a "Feather Touch Cutting Method" for effective excavation.



LUBRICATION



- Use only a **Special Oil Spray** designed for air turbine handpieces, such as NSK's Pana Spray.



- For **Coupling Type**, use **NSK's SPRAY NOZZLE** enclosed in the set box. For M4/B2 Type, blow the spray from the Drive Air Hole.

- Spray for 2-3 seconds until the liquid comes out from the head for complete cleaning.



At least **TWICE A DAY**, and **EVERYTIME BEFORE AUTOCLAVING**.
(After morning session and evening session)

Care3 Plus

ONE STOP SOLUTION



For Cleaning & Lubrication



STERILIZATION



Never use any chemical solution for sterilization.



Never use ultrasonic bath.



Brush off excess dirt and wipe clean with alcohol soaked cloth.



For Autoclaving:

- Spray lubricate every time prior to autoclaving.
- Put the handpiece into a pouch and seal it completely.
- Autoclave for 20min. at 121°C , or 15min. at 132°C .

Say **NO!** to
Counterfeit

حاربوا الغش
والتقليد

NO! **NCK**
NO! **FSK**
NO! **MSK**

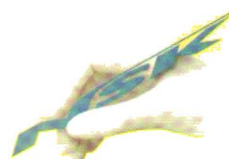
...and even **NSK** copy
product with similar
packaging!

Beware of fake NSK products imported by third parties.
Please contact local authorized agent and its reliable sub-dealers
for genuine NSK products with full after-sales services.

www.nsk-inc.com

YES!

All **NSK** products are
MADE IN JAPAN



Powerful Partners®

* FLASH pearl is made in France